

UCD LIBRARY







STATE OF CALIFORNIA
The Resources Agency

Department of Water Resources

BULLETIN No. 130-70

HYDROLOGIC DATA: 1970

Volume IV: SAN JOAQUIN VALLEY

APR 2 1973

REC'D



NORMAN B. LIVERMORE, JR.
Secretary for Resources



DECEMBER 1971

RONALD REAGAN
Governor



WILLIAM R. GIANELLI
Director

STATE OF CALIFORNIA
The Resources Agency
Department of Water Resources

BULLETIN No. 130-70

HYDROLOGIC DATA: 1970
Volume IV: SAN JOAQUIN VALLEY

Copies of this bulletin at \$4.00 each may be ordered from:

State of California
DOCUMENTS SECTION
P.O. Box 20191
Sacramento, California 95820

Make checks payable to STATE OF CALIFORNIA.
California residents add 5 percent sales tax.

DECEMBER 1971

NORMAN B. LIVERMORE, JR.
Secretary for Resources
The Resources Agency

RONALD REAGAN
Governor
State of California

WILLIAM R. GIANELLI
Director
Department of Water Resources

VOLUME I
NORTH COASTAL
AREA

VOLUME II
NORTHEASTERN
CALIFORNIA

VOLUME III
CENTRAL
COASTAL
AREA

VOLUME IV
SAN JOAQUIN
VALLEY

This Area Reported In
Volume III & V

BULLETIN No. 130

**HYDROLOGIC DATA
AREAL COVERAGE OF VOLUMES**

Each Volume Contains

Appendix A: Climatological Data
Appendix B: Surface Water Measurements
Appendix C: Ground Water Measurements
Appendix D: Surface Water Quality
Appendix E: Ground Water Quality
Appendix F: Waste Water Data

This Volume



VOLUME V
SOUTHERN CALIFORNIA

FOREWORD

The data collection programs of the Department of Water Resources have been designed to supplement the activities of other agencies to satisfy specific needs of the State. Bulletin No. 130-70 presents useful, comprehensive, accurate, and timely hydrologic data which are prerequisites for monitoring environmental conditions as well as effective planning, design, construction, and operation of water facilities.

The Bulletin No. 130 series is published annually in five volumes. Each volume presents hydrologic data for one of five reporting areas of the State. These areas are delineated on the map to the left.

William R. Gianelli
William R. Gianelli, Director
Department of Water Resources
State of California
October 4, 1971

METRIC CONVERSION TABLE

ENGLISH UNIT	EQUIVALENT METRIC UNIT	
Inch (in)	2.54	Centimeters
Foot (ft)	0.3048	Meter
Mile (mi)	1.609	Kilometers
Acre	0.405	Hectare
Square mile (sq. mi.)	2.590	Square kilometer
U. S. gallon (gal)	3.785	Liters
Acre-foot (acre-ft)	1,233.5	Cubic meters
U. S. gallon per minute (gpm)	0.0631	Liters per second
Cubic feet per second (cfs)	1.699	Cubic meters per minute
1 part per million (ppm)	Milligram per liter (mg/l)	
1 part per billion (ppb)	Microgram per liter (ug/l)	
1 part per trillion (ppt)	Nanogram per liter (ng/l)	
1 equivalent per million (epm)	Milliequivalent per liter (me/l)	
Degrees Fahrenheit (°F)	Degrees Celsius (°C) = $(^{\circ}\text{F} - 32^{\circ}) 5/9$	

TABLE OF CONTENTS

	<u>Page</u>
AREAL COVERAGE OF VOLUMES	v
FOREWORD	vii
METRIC CONVERSION TABLE	viii
ORGANIZATION, DEPARTMENT OF WATER RESOURCES	viii
ACKNOWLEDGMENTS	ix
ABSTRACT	x
APPENDICES	
Appendix A: CLIMATOLOGICAL DATA	1
Introduction	3
FIGURES	
Figure Number	
A-1 Climatological Observation Stations	4
TABLES	
Table Number	
A-1 Index of Climatological Stations	11
A-2 Precipitation Data	18
A-3 Storage Gage Precipitation Data	23
A-4 Evaporation Data	25
A-5 Climatological Station Changes and Relocations	27
Appendix B: SURFACE WATER MEASUREMENT	29
Introduction	31
Alphabetical Index to Tables	32
Hydrographic Area and Stream Basin Index to Surface Water Measurement Stations	33
FIGURES	
Figure Number	
B-1 Location of Surface Water Measurement Stations	34
TABLES	
Table Number	
B-1 Annual Unimpaired Runoff	40
B-2 Monthly Unimpaired Runoff	42
B-3 Gaging Station Additions and Discontinuations	43
B-4 Daily Mean Discharge	44
B-5 Streamflow Measurements at Miscellaneous Locations	48
B-6 Diversions	99
B-7 Diversions and Acreage Irrigated--Eastside Canals and Irrigation Districts	109
B-8 Deliveries from Central Valley Project Canals	110
B-9 Deliveries from California Aqueduct	112
B-10 Imports and Exports	113
B-11 Daily Mean Gage Height	114
B-12 Corrections and Revisions to Previously Published Reports	133

TABLE OF CONTENTS (Continued)

	<u>Page</u>
Appendix C: GROUND WATER MEASUREMENT	137
Introduction	139
FIGURES	
Figure Number	
C-1 Fluctuation of Average Water Level in Selected Areas	140
C-2 Fluctuation of Water Levels in Selected Wells	146
TABLES	
Table Number	
C-1 Change in Average Ground Water Level in Districts or Areas in the San Joaquin Valley . .	162
C-2 Change in Average Ground Water Level from 1921 to 1951 and 1951 to 1970 in 18 Ground Water Areas in the San Joaquin Valley	165
C-3 Ground Water Levels at Wells	166
C-4 Ground Water Recharge	181
Appendix D: SURFACE WATER QUALITY	183
Introduction	185
FIGURES	
Figure Number	
D-1 Location of Surface Water Quality Surveillance Stations	187
D-2 Daily Mean Specific Conductance at Selected Stations, San Joaquin Valley	188
TABLES	
Table Number	
D-1 Surveillance Station Data and Index for Surface Water	186
D-2 Mineral Analyses of Surface Water	191
D-3 Trace Mineral Analyses of Surface Water	196
D-4 Miscellaneous Constituents of Surface Water	199
Appendix E: GROUND WATER QUALITY	201
Introduction	203
TABLES	
Table Number	
E-1 Mineral Analyses of Ground Water	204
E-2 Trace Mineral Analyses of Ground Water	212
E-3 Miscellaneous Constituents of Ground Water	214
Appendix F: WASTE WATER DATA	217
Introduction	219
TABLE	
Table Number	
F-1 Inventory of Municipal Waste Discharges - Tulare Lake Subbasin	220
PLATES (Bound at end of volume)	
Plate Number	
1 Ground Water Level Changes, Unconfined and Semiconfined Aquifers, and Selected Observation Wells	
2 Ground Water Level Changes, Confined and Semiconfined Aquifers, and Cooperative Program Areas	
3 Map of Selected Ground Water Areas in San Joaquin Valley and Profiles Along Section A-A' Showing Ground Water Levels in 1921, 1951, & 1970	
4 Lines of Equal Elevation of Water in Wells, San Joaquin Valley, Spring 1970	
5 Lines of Equal Change of Water Levels in Wells, Pressure Surface and Unconfined Aquifers, San Joaquin Valley, Spring 1965 to Spring 1970	

State of California
The Resources Agency
Department of Water Resources

RONALD REAGAN, Governor, State of California
NORMAN B. LIVERMORE, JR., Secretary for Resources
WILLIAM R. GIANELLI, Director, Department of Water Resources

This report prepared under the direction of
JOHN R. TEERINK, Deputy Director

by the

SAN JOAQUIN DISTRICT

Carl L. Stetson District Engineer, San Joaquin District
Floyd I. Bluhm Chief, Water Supply and Utilization Section
G. Donald Meixner Chief, Planning and Investigations Section

Activities covered by and the preparation of this
report were under the supervision of

Cledith L. Chastain Chief, Water Supply Unit
Victor B. McIntyre Chief, Water Quality Unit

Appendixes A, B, and C of this report were prepared by

William A. Mancebo Climatology Water Resources Technician II
Harry R. Brenner Surface Water Water Resources Technician II
John Gostanian Ground Water Water Resources Engineering Associate
Robert W. Grimshaw Modesto Field Office Water Resources Engineering Associate

Assisted by

Keithal B. Dick Water Resources Technician II
Donald R. Henley Water Resources Technician II
Thomas E. Stowell, Jr. Water Resources Technician II
Donald W. Colburn Water Resources Technician II
John E. Baird Water Resources Technician II
James H. Davies Water Resources Technician I
Lloyd Hartwig Water Resources Technician I
Anthony D. Camoroda Engineering Aid II
Tracy E. Nelson Engineering Aid II
Joseph F. Schweizer Delineator
C. Collette Blair Stenographer II

Appendixes D, E, and F of this report were prepared by

James M. Windsor Water Resources Engineering Associate

Assisted by

Stanley J. Kuffel Water Resources Technician II
Samuel A. Krapp Engineering Aid II
Lester S. Obata Engineering Aid II
Gary J. Riddle Engineering Aid II
Linda E. Wayman Engineering Aid I
Carlynn J. Blackwell Stenographer II

Reviewed and coordinated by Division of Resources Development,
Environmental Quality Branch
Water Resources Evaluation Section

ACKNOWLEDGMENTS

In the collection of data for this bulletin, the Department has been aided by various public and private agencies and by many private citizens. This cooperation is gratefully acknowledged, and it is especially fitting to commend the following agencies:

National Weather Service
U. S. Bureau of Reclamation
U. S. Army Corps of Engineers
U. S. Geological Survey
State Department of Public Health
City and County of San Francisco
City of Modesto
Kern County Water Agency
Kern County Land Company
Buena Vista Water Storage District
Modesto Irrigation District
Turlock Irrigation District
Oakdale Irrigation District
Merced Irrigation District
Fresno Irrigation District
Kings River Water Association
Central California Irrigation District
Tule River Association
Fresno County Health Department
Kern County Health Department
Tulare County Health Department
Kern County Parks and Recreation Department

ABSTRACT

Report contains tables showing data on climate, surface water flow, ground water levels, surface and ground water quality, and waste water in the San Joaquin Valley for the 1969-70 water year. Figures show location of climatological, surface water, and surface water quality measurement stations; fluctuation of water levels in selected wells and areas; and electrical conductance at selected stations. Plates show lines of equal elevation of water in wells, spring 1970; profile of ground water levels; cooperative study areas; ground water level changes, and well locations.

APPENDIX A
CLIMATOLOGICAL DATA

INTRODUCTION

This appendix summarizes monthly precipitation, temperature, wind movement, and evaporation data for the San Joaquin Valley from July 1, 1969 to September 30, 1970. Storage gage precipitation data are annual values. Thirty-two cooperating agencies and 93 local observers supplied the data for the 333 stations reported. Detailed daily and hourly data for some stations, not published here, are available in the files of the Department of Water Resources.

To insure accuracy, stations are inspected annually or semiannually to see that the equipment is properly maintained and that observations generally are taken in accordance with National Weather Service standards.

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits denote the alphabetical sequence of the station.

HYDROGRAPHIC AREA B

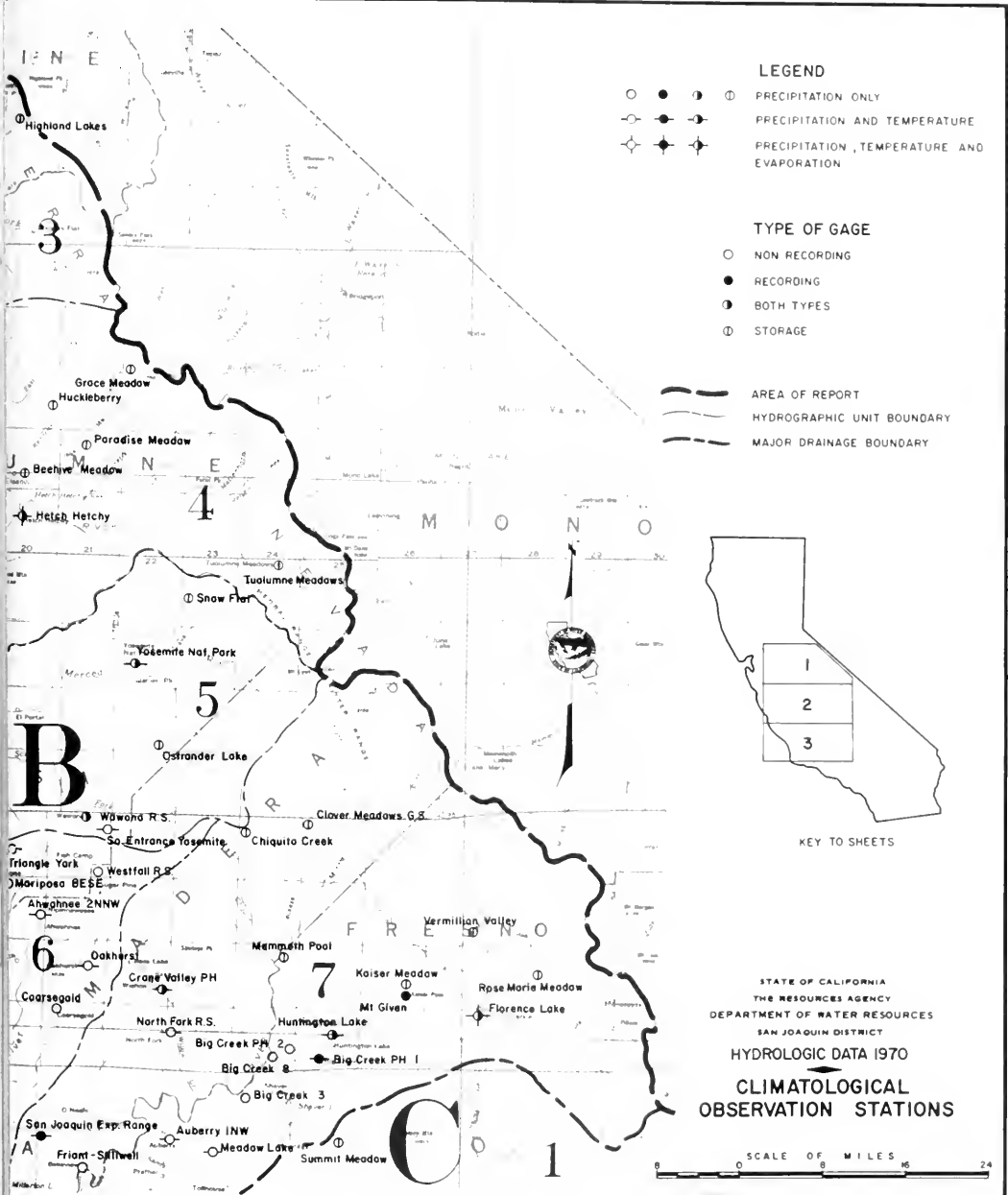
SAN JOAQUIN RIVER BASIN

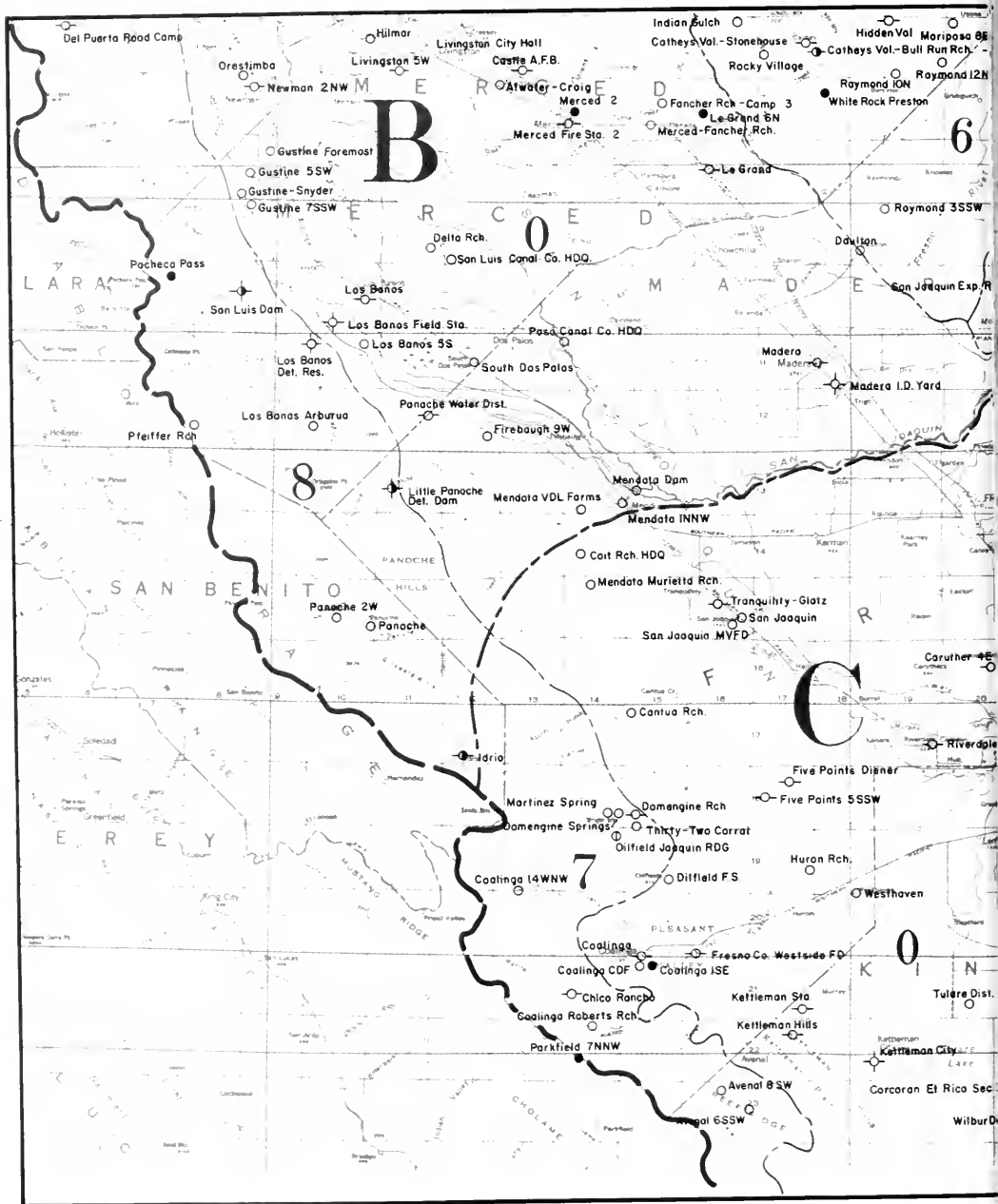
B0 - San Joaquin Valley Floor
B3 - Stanislaus River
B4 - Tuolumne River
B5 - Merced River
B6 - Fresno-Chowchilla Rivers
B7 - San Joaquin River
B8 - San Joaquin Valley on West Side

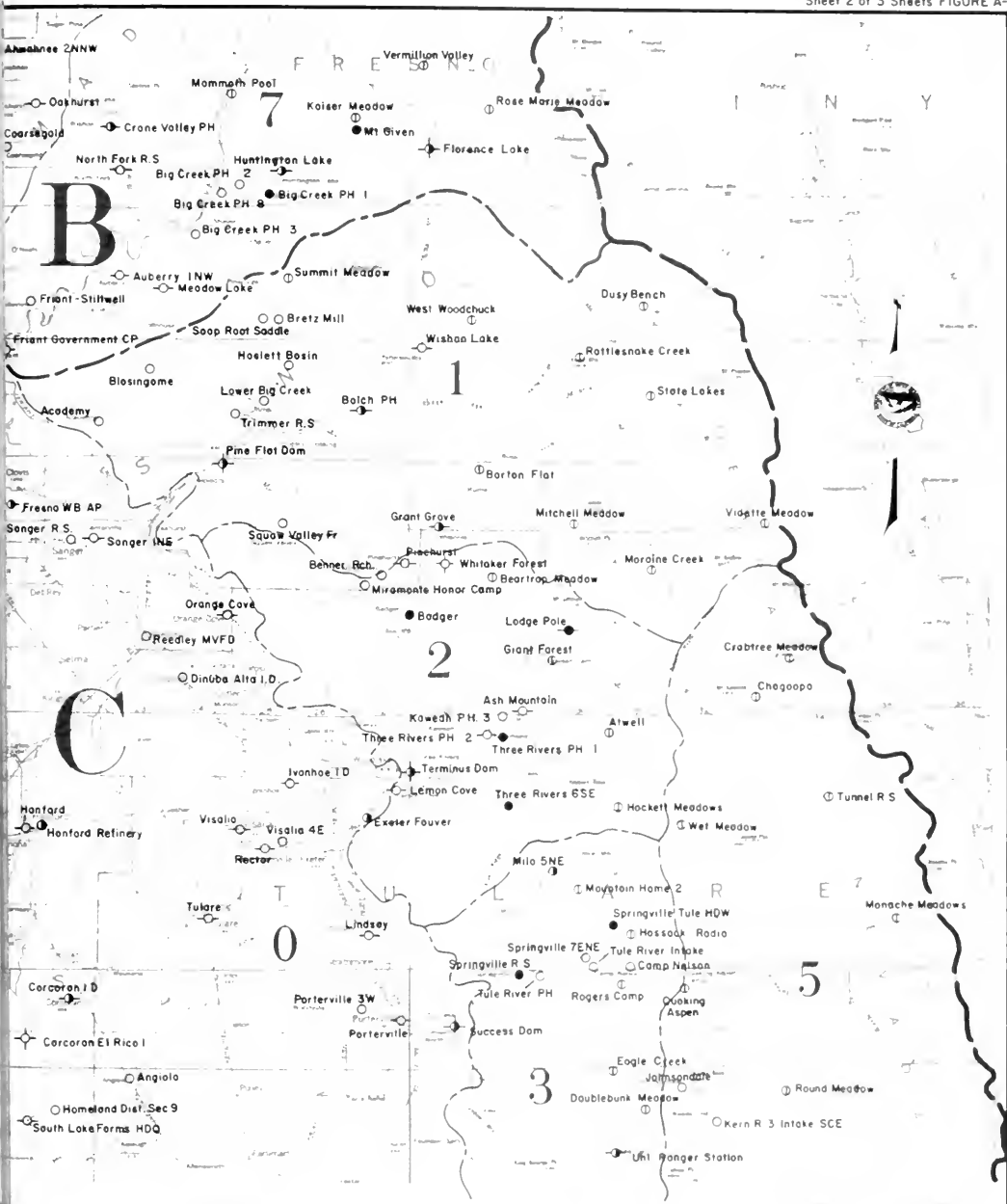
HYDROGRAPHIC AREA C

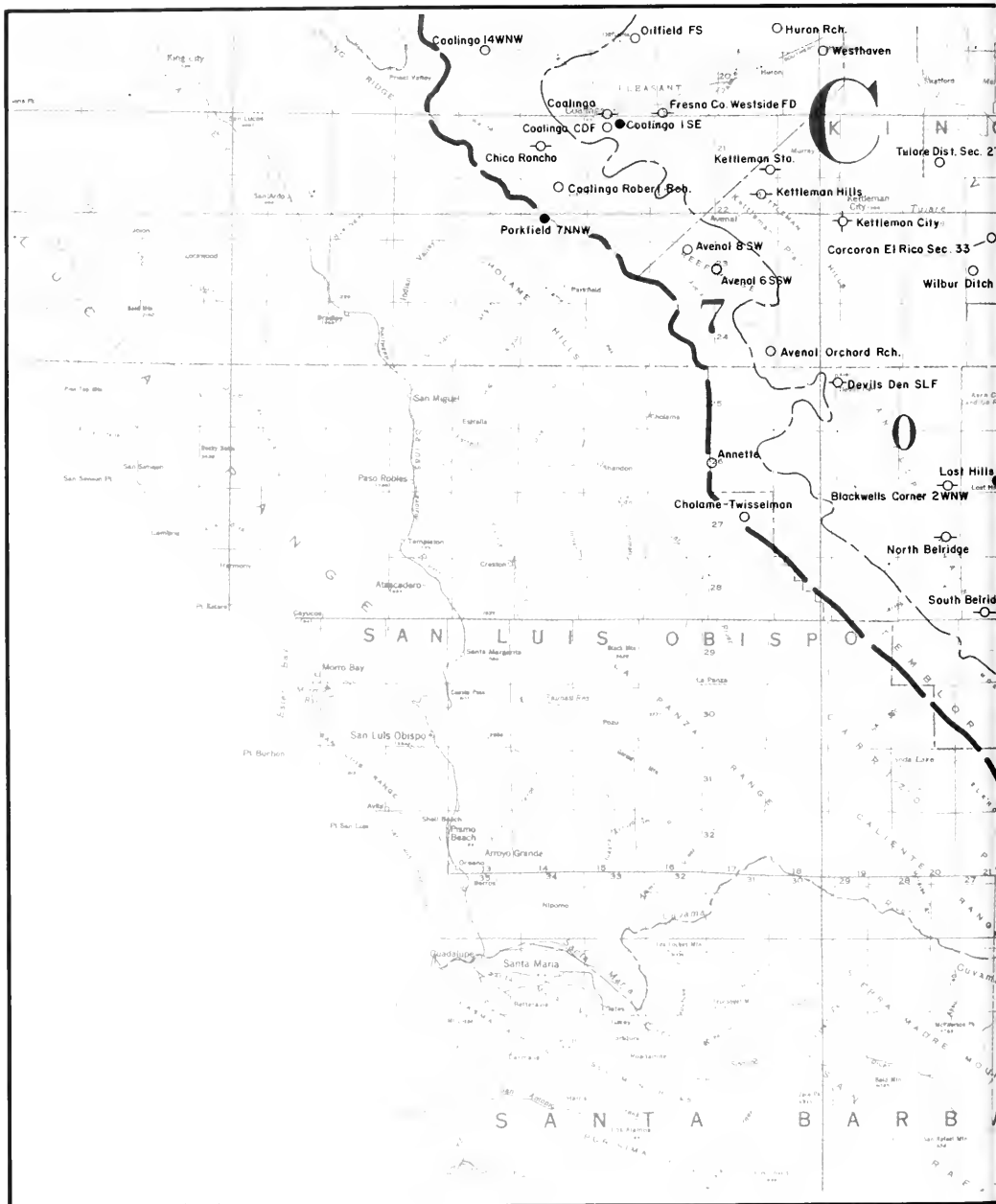
TULARE LAKE DRAINAGE BASIN

C0 - Tulare Lake Valley Floor
C1 - Kings River
C2 - Kaweah River
C3 - Tule River
C4 - Greenhorn Mountains
C5 - Kern River
C6 - Tehachapi Mountains
C7 - Tulare Lake Basin on West Side









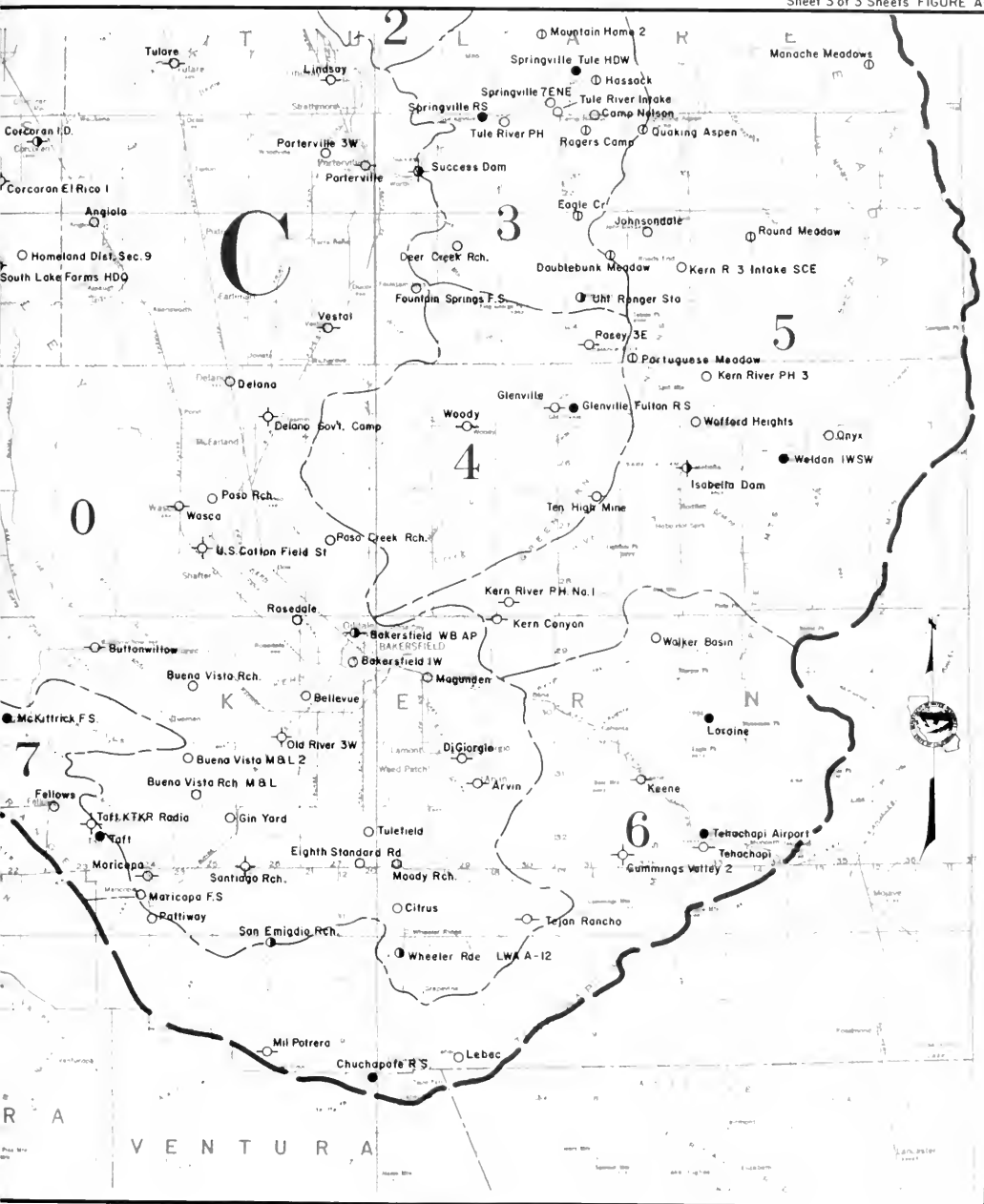


TABLE A-1

INDEX OF CLIMATOLOGICAL STATIONS

An explanation of the column headings and code symbols used in connection with this table follows:

40-Acre Tract. This denotes the location of the station within the section in which it is located. The letter code is derived from the following diagram:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Base and Meridian. The code for this column is as follows:

M - Mount Diablo Base and Meridian

S - San Bernardino Base and Meridian

Cooperators' Numbers. These numbers are assigned from the following list:

- 000 - Private Cooperators
- 001 - 399 Private Agencies
 - 001 Kern County Land Company
 - 002 Boswell Company
 - 003 P. G. and E. Company
 - 004 Southern California Edison Company
 - 005 California Electric Power Company
 - 010 Amateur Radio Weather Network KTRB
 - 011 Southern Pacific Company
 - 012 Miller and Lux, Inc.
 - 013 Central California Irrigation District
- 400 - 799 Counties and municipalities
 - 401 Hetch Hetchy Water Supply
 - 404 Oakdale Irrigation District
 - 405 City of Los Angeles, Department of Water & Power
 - 420 Stanislaus County
- 800 - 899 State
 - 801 Pomology Department, University of California, Davis
 - 804 Division of Beaches and Parks
 - 805 State Department of Fish and Game
 - 806 Department of Water Resources
 - 808 Division of Forestry
 - 809 Division of Highways

TABLE A-1 (Continued)

814	University of California, Davis, Westside Field Station
815	University of California, School of Forestry
900 - 999	Federal
900	National Weather Service
902	U. S. Air Force, Air Weather Service
903	U. S. Army Corps of Engineers
904	U. S. Bureau of Reclamation
905	U. S. Forest Service
906	U. S. Department of Agriculture, Agricultural Research Service
907	National Weather Service (State Climatologist)
916	U. S. Geological Survey

Cooperators' (Coop) Index Numbers. These are the numbers assigned to the stations by the agencies responsible for handling the station records. With few exceptions, the alpha order numbers assigned to the National Weather Service stations are the same as those used by the National Weather Service. The National Weather Service station number is shown in this column only when it differs from the alpha order number.

Record Began. This is shown to year only.

Record Ended. If record continues this column is left blank.

Years Missing. This denotes missing record to the nearest full year.

County Code. Numbers used to designate specific counties are listed below:

Alpine	02
Calaveras	05
Fresno	10
Inyo	14
Kern	15
Kings	16
Madera	20
Mariposa	22
Merced	24
San Benito	35
San Joaquin	39
San Luis Obispo	40
Stanislaus	50
Tulare	54
Tuolumne	55
Ventura	56

TABLE A-1
INDEX OF CLIMATOLOGICAL STATIONS
SAN JOAQUIN VALLEY

Station		Elevation (in Feet)	Section	Township	Range	40-Acre Tract Box & Meridian	Latitude			Longitude			Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
Number	Name						O	I	N	O	I	N						
C1 0009	ACADEMY	545	SEC 14	T12S	R22E	P	36	52	58	119	32	25	000		1958			10
B6 0049	AHWAHNEY 2 NNW	2680	SEC 24	T06S	R20E	M	37	23	22	119	44	07	907		1959			20
C0 0204	ANGIOLA	205	SEC 27	T22S	R23E	D	35	59	25	119	28	42	900		1899			54
B3 0209	ANGELS CAMP	1535	SEC 34	T03N	R13E	E	38	04	20	120	32	18	003		1908			05
C7 0215	ANNETTE	2140	SEC 19	T26S	R17E	R	35	38	48	120	10	12	000		1952			15
C0 0332	ARVIN	445	SEC 23	T31S	R29E	M	35	12	00	118	49	00	000		1936			15
C2 0343	ASH MOUNTAIN	1708	SEC 34	T16S	R29E	L	36	29	30	118	49	35	900		1925			54
B0 0373-80	ATWATER CRAIG	150	SEC 02	T07S	R12E	M	37	21	20	120	37	00	000		1961	1969		24
C2 0374	ATWELL	6400	SEC 12	T17S	R30E	A	36	28	00	118	40	00	900		1948			54
B7 0379	AUBERRY 1 NW	2010	SEC 06	T10S	R23E	A	37	05	40	119	29	50	900		1915			10
C0 0399	AVENAL ORCHARD RCH	712	SEC 25	T24S	R17E	P	35	48	23	120	05	18	000		1919			16
C7 0399-01	AVENAL 8 SW	1424	SEC 03	T23S	R16E	G	35	57	33	120	13	25	000		1957			16
C7 0399-02	AVENAL 6 SSW	1565	SEC 18	T23S	R17E	K	35	55	30	120	10	05	000		1953			16
C2 0422	BADGER	3030	SEC 11	T15S	R27E	P	36	37	53	119	00	46	900		1940			54
C0 0440	BAKERSFIELD 1 W	400	SEC 26	T29S	R27E	H	35	22	41	119	02	17	900		1913	1969		15
C0 0442	BAKERSFIELD WB AP	494	SEC 02	T29S	R27E	Q	35	25	38	119	02	34	900		1933			15
C1 0449	BALCH POWERHOUSE	1720	SEC 12	T12S	R26E	B	36	54	33	119	05	15	900		1921			10
C1 0534	BARTON FLAT	3760	SEC 01	T13S	R28E	M	36	49		118	53	900		1961			10	
B3 0569-60	BEAR VALLEY ALPINE	7100	SEC 18	T07N	R18E	E	38	27	45	120	02	30	000		1967			02
B5 0570-80	BEAR VALLEY	2600	SEC 20	T04S	R17E	M	37	34		120	07	903		1960			22	
B3 0573	BEARDSLEY DAM	3164	SEC 14	T04N	R17E	M	38	12	12	120	04	30	404		1959			55
C2 0596	BEARTRAP MEADOW	6800	SEC 29	T14S	R29E	M	36	41	00	118	52	00	900		1959			54
B4 0617	BEEHIVE MEADOW	6500	SEC 28	T02N	R20E	M	38	00	00	119	47	00	900		1947			55
C0 0631	BELLEVEUE	369	SEC 07	T30S	R27E	B	35	20	11	119	05	27	001		1961	1969		15
C1 0676	BENNER RANCH	3525	SEC 27	T14S	R27E	C	36	41	05	119	01	50	000		1967			10
B7 0755	BIG CREEK PH 1	4930	SEC 28	T08S	R25E	J	37	12	15	119	14	20	900		1915			10
B7 0755-01	BIG CREEK PH 2	3000	SEC 25	T08S	R24E	N	37	11	59	119	18	19	004		1913			10
B7 0755-02	BIG CREEK PH 3	1400	SEC 17	T09S	R24E	E	37	08	54	119	23	00	004		1922			10
B7 0755-05	BIG CREEK PH 8	2260	SEC 27	T08S	R24E	G	37	12	00	119	20	00	004		1921			10
C0 0875	BLACKWELLS CORNER 2 WNW	710	SEC 35	T26S	R19E	L	35	37	15	119	53	40	900		1944		13	15
C1 0880-80	BLASINGAME	1050	SEC 22	T11S	R23E	M	36	57	37	119	26	45	808		1961			10
C1 1069-11	BRETZ MILL	3250	SEC 27	T10S	R25E	D	37	02	18	119	14	24	905		1960			10
C0 1174	BUENA VISTA RCH	310	SEC 04	T30S	R25E	R	35	21	00	119	19	00	001		1944	1969		15
C0 1175	BUENA VISTA RCH M&L	290	SEC 28	T31S	R26E	N	35	11	42	119	11	43	002		1955			15
C0 1175-80	BUENA VISTA RCH M&L 2	290	SEC 08	T31S	R25E	R	35	14	25	119	18	23	002		1962			15
C0 1244	BUTTONWILLOW	270	SEC 24	T29S	R23E	K	35	24	00	119	28	00	900		1940			15
B3 1280	CALAVERAS RANGER STA	3343	SEC 18	T04N	R15E	L	38	11	50	120	21	55	900		1944			05
C3 1425	CAMP NELSON	4560	SEC 32	T20S	R31E	R	36	08	17	118	37	36	000		1959			54
C0 1490	CANTUA RANCH	295	SEC 06	T17S	R15E	N	36	28	35	120	23	20	000		1955			10
C0 1557	CARUTHERS 4 E	265	SEC 14	T16S	R20E	B	36	32	48	119	45	30	000		1960			10
B0 1580	CASTLE A F B	170	SEC 32	T06S	R13E	L	37	22	03	120	34	20	902		1951			24
B6 1588	CATHEYS VAL BULLRUN R	1425	SEC 34	T06S	R17E	H	37	23	56	120	03	08	900		1940			22
B5 1588-03	CATHEYS VALLEY 3 NNW	1250	SEC 28	T05S	R17E	B	37	28	33	120	06	33	000		1957			22
B6 1591	CATHEYS VAL STONEHOUSE	1210	SEC 14	T06S	R17E	M	37	24	30	120	05	00	000		1951			22
C5 1647	CHAGOOPA	10390		T16S	R33E	M	36	30		118	27	901		1964			54	
B4 1697	CHERRY VALLEY DAM	4765	SEC 05	T01N	R19E	L	37	58	00	119	55	00	900		1955			55
C7 1716-20	CHICO RANCHO	1350	SEC 20	T21S	R14E	M	36	05	13	120	29	22	000		1969			10
B7 1737	CHIOQUITO CREEK	7290	SEC 07	T05S	R24E	N	37	30	20	119	23	21			1961			22
C7 1743-02	CHOLAME TWISSELMAN	1675	SEC 15	T27S	R17E	R	35	35	00	120	07	00	000		1950			10
C6 1754	CHUCHAPATE R S	5260	SEC 04	T08N	R20W	S	34	48	00	119	01	00	900		1941			56
C0 1770-80	CITRUS	660	SEC 13	T11N	R20W	M	35	02	18	118	58	28	001		1963	1969		15
B7 1844	CLOVER MEADOWS	7002	SEC 06	T05S	R25E	M	37	32		119	17		900		1946			20
C0 1864	COALINGA	671	SEC 32	T20S	R15E	P	36	09	00	120	21	00	900		1942			10
C7 1864-02	COALINGA ROBERTS RCH	1350	SEC 03	T22S	R14E	R	36	02	18	120	26	40	000		1953			10
C0 1867	COALINGA 1 SE	663	SEC 04	T21S	R15E	J	36	07	39	120	20	38	900		1911			10
C7 1869	COALINGA 14 WNW	1640	SEC 33	T19S	R13E	M	36	14	00	120	34	00	900		1949			10
C0 1870-80	COALINGA CDF	690	SEC 05	T21S	R15E	Q	36	08	03	120	22	00	808		1961			10
B6 1878	COARSEGOLD	2363	SEC 05	T08S	R21E	L	37	16	00	119	42	00	907		1952			20
C0 1885	COIT RANCH HDQ	278	SEC 20	T14S	R14E	D	36	42	00	120	28	25	000		1954			10
B3 1944	COLUMBIA	2150	SEC 11	T02N	R14E	N	38	02	22	120	24	37	000		1969			55
B3 2003	COPPEROPOLIS	1000	SEC 34	T02N	R12E	K	37	59	00	120	38	00	903		1954		03	05
C0 2012	CORCORAN IRRIG DIST	200	SEC 15	T21S	R22E	P	36	05	53	119	34	51	900		1912			16
C0 2013	CORCORAN EL RICO 1	185	SEC 01	T22S	R21E	E	36	02	36	119	38	42	002		1958			16
C0 2013-05	CORCORAN EL RICO 33	190	SEC 33	T22S	R21E	Q	35	57	49	119	42	14	002		1951	1969		16
B5 2072	COULTERVILLE FFS	1870	SEC 33	T02S	R16E	A	37	43	25	120	12	12	808		1959			22
C5 2114	CRABTREE MEADOW	10700	SEC 01	T16S	R33E	M	36	34	00	118	21	00	900		1948			54
B7 2122	CRANE VALLEY PH	3440	SEC 25	T07S	R22E	M	37	17	26	119	31	35	003		1903			20
C6 2222-80	CUMMINGS VALLEY 2	3825	SEC 30	T32S	R32E	G	35	07		118	35		806		1961			15
B6 2288	DAULTON	410	SEC 26	T09S	R18E	E	37	07	18	119	59	00	000		1946			20
C3 2335-10	DEER CREEK RCH	950	SEC 05	T23S	R29E	R	35	57	15	118	51	28	000		1968	1969		54

TABLE A-1 (Cont.)
INDEX OF CLIMATOLOGICAL STATIONS
SAN JOAQUIN VALLEY

Station		Elevation (In Feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude			Longitude			Cooperator Number	Cooperator's Number	Record Began	Record Ended	Years Missing	County Code
Number	Name						O	I	II	O	I	II						
C0 2346	DELANO	323	SEC 11	T25S	R25E	A	M	35	46	23	119	14	37	900	1876			15
C0 2346-01	DELANO GOV'T CAMP	394	SEC 28	T25S	R26E	E	M	35	48	35	119	11	00	904	1952			15
B8 2369	DEL PUERTO ROAD CAMP	1125	SEC 12	T06S	R05E	O	M	37	25	24	121	22	42	900	1958			50
B0 2375	DELTA RANCH	90	SEC 26	T09S	R11E	M	37	07	00	120	44	00	013		1949		01	24
B0 2389	DENAIR 3 NNE	137	SEC 20	T04S	R11E	M	37	34		120	47		900	1964			50	
B0 2389-20	DENAIR BARFIELD	165	SEC 20	T05S	R12E	E	M	37	29	18	120	40	47	000	1965			24
C0 2408	DEVILS DEN SLF	500	SEC 07	T25S	R19E	M	M	35	45	55	119	58	22	000	1959			15
C0 2436	DIGIORGIO	483	SEC 10	T31S	R29E	B	M	35	15	08	118	51	00	000	1937			15
C0 2440-01	DINUBA ALTA 1 D	334	SEC 17	T16S	R24E	D	M	36	32	32	119	23	30	000	1944			54
C7 2464	DOMENGINE RCH	1000	SEC 29	T18S	R15E	A	M	36	20	24	120	21	30	000	1959			10
C7 2464-01	DOMENGINE SPRING	1700	SEC 25	T18S	R14E	K	M	36	19	53	120	24	04	000	1958	1970		10
B4 2473	DON PEDRO RESERVOIR	700	SEC 35	T02S	R14E	E	M	37	43	00	120	24	18	904	1940			55
C3 2492	DOUBLEBUNK MEADOW	6200	SEC 11	T23S	R31E	M	M	35	57	00	118	36	00	900	1955			54
B5 2539	DUDLEYS	3000	SEC 21	T02S	R17E	D	M	37	45	14	120	06	30	900	1909			22
C1 2577	DUSY BENCH	9470		T10S	R31E	M	37	06		118	35		901	1964			10	
C3 2591	EAGLE CREEK	6650		T22S	R31E	M	35	59		118	39		903	1964			54	
B4 2609	EARLY INTAKE PH	2356	SEC 11	T01S	R18E	C	M	37	52	30	119	57	25	401	1925			55
C0 2752-80	EIGHTH STAND RCH	338	SEC 36	T32S	R27E	M	M	35	06	05	119	01	45	001	1963	1969		50
B0 2820	EL SOLYO RCH	50	SEC 06	T04S	R07E	B	M	37	37	24	121	14	09	000	1953			50
B0 2860	ESCALON SWANSON	125	SEC 03	T02S	R09E	L	M	37	47	20	121	58	15	000	1944			39
B5 2920	EXCHEQUER RESERVOIR	484	SEC 13	T04S	R15E	L	M	37	35	06	120	16	11	900	1935			22
C0 2922	EXETER FAUVER RCH	439	SEC 20	T18S	R27E	D	M	36	21	28	119	04	45	900	1938			54
B0 2968	FANCHER RCH CAMP 3	225	SEC 16	T07S	R15E	N	M	37	19	04	120	20	04	000	1959			24
C7 3005	FELLOWS	1340	SEC 06	T32S	R23E	C	M	35	10	44	119	32	39	000	1956			15
B0 3063	FIREBAUGH 9 W	185	SEC 26	T12S	R12E	R	M	36	51	04	120	37	03	000	1934	1969		10
C0 3083	FIVE POINTS 5 SSW	276	SEC 17	T18S	R17E	M	M	36	21	48	120	09	22	900	1942			10
C0 3084	FIVE POINTS DIENER	263	SEC 10	T18S	R17E	R	M	36	22	20	120	06	12	000	1933			10
B7 3093	FLORENCE LAKE	7345	SEC 36	T07S	R27E	N	M	37	16	27	118	58	27	900	1940			10
C0 3207	FOUNTAIN SPRINGS R S	800	SEC 26	T23S	R28E	Q	M	35	53	31	118	55	58	808	1965			54
C0 3257	FRESNO WB AP	331	SEC 30	T13S	R21E	J	M	36	46	10	119	43	02	900	1899			10
C0 3258-80	FRESNO CO WESTSIDE FD	600	SEC 31	T20S	R16E	Q	M	36	08	27	120	16	22	806	1963			10
B7 3261	FRANT GOVERNMENT CP	410	SEC 07	T11S	R21E	A	M	36	59	00	119	43	00	900	1896			10
B7 3261-05	FRANT STILLWELL	1009	SEC 23	T10S	R21E	B	M	37	03	07	119	38	48	000	1965			20
C2 3397	GIANT FOREST	6412	SEC 06	T16S	R30E	E	M	36	34	05	118	46	01	900	1921			54
C0 3428-01	GIN YARD	295	SEC 12	T32S	R25E	R	M	35	09	12	119	14	10	002	1960			15
C4 3463	GLENNVILLE	3140	SEC 25	T25S	R30E	F	M	35	43	28	118	42	07	900	1951			15
C4 3465	GLENNVILLE FULTON R S	3500	SEC 29	T25S	R31E	H	M	35	44	00	118	40	00	900	1940			15
B4 3529	GRACE MEADOW	8900	SEC 31	T04N	R22E	M	M	38	09	00	119	36	00	900	1947			55
C1 3551	GRANT GROVE	6580	SEC 32	T13S	R28E	N	M	36	44	29	118	57	40	900	1924			54
B5 3586-05	GREELY HILL 1 N	3060	SEC 17	T02S	R17E	F	M	37	45	55	120	07	40	000	1965			22
B4 3669	GROVELAND 2	2825	SEC 21	T01S	R16E	E	M	37	50	00	120	14	00	900	1940			55
B4 3672	GROVELAND R S	3135	SEC 27	T01S	R17E	L	M	37	49	00	120	06	00	900	1940			55
B0 3690-02	GUSTINE 5 SW	145	SEC 24	T08S	R08E	F	M	37	13	26	121	02	37	000	1927			24
B0 3690-04	GUSTINE SNYDER	150	SEC 35	T08S	R08E	B	M	37	12	00	121	03	00	000	1930			24
B0 3694	GUSTINE FOREMOST	98	SEC 08	T08S	R09E	B	M	37	15	28	120	59	53	000	1928			24
B0 3698	GUSTINE 7 SSW	156	SEC 01	T09S	R08E	R	M	37	10	25	121	01	54	000	1958			24
C0 3747	HANFORD	242	SEC 26	T18S	R21E	P	M	36	19	43	119	39	55	900	1899			16
C0 3749	HANFORD REFINERY	245	SEC 36	T18S	R21E	Q	M	36	18	59	119	39	10	000	1964			16
C1 3811-11	HASLETT BASIN	2400	SEC 14	T11S	R25E	K	M	36	58	18	119	12	54	905	1960			10
B4 3939	HETCH HETCHY	3870	SEC 16	T01N	R20E	G	M	37	26	02	119	46	54	900	1910			55
B6 3948	HIDDEN VALLEY	1750	SEC 01	T06S	R18E	J	M	37	26	00	119	56	24	000	1949			22
B3 3952	HIGHLAND LAKES	8700	SEC 32	T08N	R20E	Q	M	38	29	48	119	47	48	900	1960			02
B0 3981	HILMAR	93	SEC 22	T06S	R10E	A	M	37	24	10	120	50	59	000	1948			24
C2 4012	HOCKETT MEADOWS	8500	SEC 07	T18S	R31E	M	M	36	22	00	118	39	00	900	1959			54
B4 4015	HODGDON MEADOW	4640	SEC 03	T02S	R19E	M	M	37	48		118	52		907	1967			55
C0 4061-01	HOMELAND DIST SEC 9	190	SEC 09	T23S	R22E	A	M	35	56	53	119	35	30	002	1952	1969		16
B5 4102-01	HORNITOS ERICKSON RCH	1150	SEC 18	T05S	R17E	Q	M	37	29	40	120	08	55	000	1955			22
B5 4103	HORNITOS GILES RCH	1050	SEC 29	T05S	R16E	H	M	37	28	10	120	14	00	000	1939			22
B5 4104-80	HORNITOS USCE	850	SEC 17	T05S	R16E	G	M	37	30	10	120	14	08	901	1960			22
C3 4120	HOSSACK (RADIO)	7100	SEC 16	T20S	R31E	L	M	36	11	00	118	37	00	900	1959			54
B4 4148	HUCKLEBERRY LAKE	7800	SEC 23	T03N	R20E	M	M	38	06	00	119	45	00	900	1948			55
B3 4170	HUNTERS DAM	3220	SEC 18	T04N	R15E	K	M	38	12	00	120	21	36	900	1950			05
B7 4176	HUNTINGTON LAKE	7020	SEC 15	T08S	R25E	R	M	37	13	45	119	13	10	900	1915			10
C0 4188	HURON RANCH	335	SEC 22	T19S	R17E	M	M	36	15	41	120	06	05	000	1951			10
B8 4204	IDRIA	2650	SEC 29	T17S	R12E	J	M	36	24	58	120	40	17	900	1918			35
B5 4246	INDIAN GULCH	1000	SEC 03	T06S	R16E	J	M	37	26	18	120	11	46	000	1952			22
C5 4303	ISABELLA DAM	2660	SEC 19	T26S	R33E	F	M	35	38	46	118	28	45	903	1949			15
C0 4312	IVANHOE 1 D	370	SEC 36	T18S	R25E	R	M	36	24	15	119	12	21	000	1954			54
B5 4369	JERSEYDALE G S	3605	SEC 35	T04S	R19E	M	M	37	32	36	119	50	905	1958			22	
C5 4389	JOHNSONDALE	4680	SEC 32	T22S	R32E	K	M	35	58	13	118	32	27	900	1954			54

TABLE A-1 (Cont.)
INDEX OF CLIMATOLOGICAL STATIONS
SAN JOAQUIN VALLEY

Station		Elevation (in feet)	Section	Township	Range	40-Acre Tract Base B Meridian	Latitude	Longitude	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
Number	Name													
B7 4442	KAISER MEADOWS	9110	SEC 26	T07S	R26E	M	37 18	00 119 06	00	900	1946			10
C2 4452	KAWAHN PH 3	1370	SEC 33	T16S	R29E	Q	M 36 29	12 118 50	06	004	1913			54
C6 4463	KEENE	2575	SEC 20	T31S	R32E	C	M 35 13	28 118 33	55	000	1948			15
C5 4513	KERN CANYON	700	SEC 06	T29S	R30E	B	M 35 26	27 118 47	45	003	1916			15
C5 4519	KERN R 3 INTAKE SCE	3642	SEC 12	T23S	R32E	F	M 35 56	43 118 28	33	004	1921			54
C5 4520	KERN RIVER PH NO 1	970	SEC 29	T28S	R30E	N	M 35 27	37 118 46	48	900	1904			15
C5 4523	KERN RIVER PH NO 3	2703	SEC 09	T25S	R33E	A	M 35 46	35 118 26	08	900	1946			15
C0 4534	KETTLEMAN CITY	310	SEC 19	T22S	R19E	C	M 35 59	45 119 57	55	900	1930		03	16
C0 4535	KETTLEMAN HILLS	1255	SEC 11	T22S	R17E	F	M 36 01	50 120 06	15	000	1931			16
C0 4536	KETTLEMAN STATION	508	SEC 25	T21S	R17E	L	M 36 04	28 120 05	08	900	1933			16
B0 4590	KNIGHTS FERRY 2 SE	315	SEC 27	T01S	R12E	M	37 47	54 120 38	42	900	1905			50
B3 4664	LAKE ALPINE	7500	SEC 08	T07N	R18E	A	M 38 28	42 120 00	48	900	1948			02
B4 4679	LAKE ELEANOR	4662	SEC 03	T01N	R19E	F	M 37 58	00 119 53	00	900	1909			15
C6 4863	LEBEC	3585	SEC 26	T09N	R19W	F	S 34 49	58 118 51	51	900	1940			15
B0 4884	LE GRAND	255	SEC 17	T08S	R16E	N	M 37 13	50 120 14	50	900	1899			24
B0 4884-05	LE GRAND 6 N	280	SEC 19	T07S	R16E	H	M 37 18	39 120 15	05	000	1946			24
C2 4890	LEMON COVE	513	SEC 02	T18S	R27E	N	M 36 23	00 119 01	31	900	1999			54
C0 4957	LINDSAY	395	SEC 17	T20S	R27E	F	M 36 11	24 119 04	20	900	1913			54
BB 4974	LITTLE PANOCH DET RES	677	SEC 20	T13S	R11E	M	36 47	12 120 48	900					10
B0 4999-02	LIVINGSTON CITY HALL	130	SEC 25	T06S	R11E	E	M 37 23	10 120 43	15	000	1948		07	24
B0 4999-03	LIVINGSTON 5 W	112	SEC 32	T06S	R11E	D	M 37 22	29 120 47	40	000	1952			24
C2 5026	LODGEPOLE	6735	SEC 21	T15S	R30E	M	36 36	118 14	900					54
C6 5098	LOREANE	2720	SEC 21	T30S	R33E	K	M 35 18	05 118 25	54	900	1941			15
B0 5116	LOS BANOS 5 S	175	SEC 11	T11S	R10E	P	M 36 59	02 120 50	55	013	1948			24
B0 5117	LOS BANOS FIELD STA	160	SEC 32	T10S	R10E	Q	M 37 00	54 120 53	55	900	1956			24
B0 5118	LOS BANOS	125	SEC 23	T10S	R10E	L	M 37 03	00 120 51	00	900	1873			24
BB 5119	LOS BANOS ARBURUA	860	SEC 24	T12S	R09E	C	M 36 52	52 120 56	25	900	1932			24
BB 5120	LOS BANOS DET RES	407	SEC 12	T11S	R09E	M	37 01	120 56	900					24
C0 5151	LOST HILLS	285	SEC 35	T26S	R21E	N	M 35 37	00 119 41	17	900	1912			15
C1 5155-51	LOWER BIG CREEK	1078	SEC 04	T12S	R25E	J	M 36 54	48 119 14	42	905	1960			10
B4 5160	LOWER KIBBY RIDGE	6500	SEC 22	T02N	R19E	M	38 01	00 119 53	00	900	1948			55
B0 5213-03	MADERA I D YARD	270	SEC 32	T11S	R18E	N	M 36 55	15 120 01	12	904	1952			20
B0 5236	MADERA	200	SEC 13	T11S	R18E	P	M 36 58	12 120 03	900		1950			20
C0 5257	MAGUNDEN	440	SEC 36	T29S	R28E	G	M 35 21	42 119 55	18	004	1927			15
B7 5288	MAMMOTH POOL	3400	SEC 11	T07S	R24E	D	M 37 20	31 119 19	45	905	1947			20
B0 5303	MANTECA	44	SEC 04	T02S	R07E	H	M 37 47	121 12	900		1964			39
C7 5336	MARIPOSA	680	SEC 31	T12N	R23W	N	S 35 04	48 119 22	58	900	1911			15
C7 5336-01	MARIPOSA F S	885	SEC 12	T11N	R24W	E	S 35 04	119 24	000		1959			15
B5 5346	MARIPOSA	2011	SEC 23	T05S	R18E	B	M 37 29	10 119 58	00	900	2001			22
B5 5346-01	MARIPOSA REYNOLDS	2000	SEC 23	T05S	R18E	B	M 37 29	20 119 57	55	000	1958			22
B6 5346-04	MARIPOSA 8 ESE	2780	SEC 06	T06S	R20E	E	M 37 26	30 119 49	37	000	1952			22
B5 5352	MARIPOSA RS	2100	SEC 15	T05S	R18E	F	M 37 30	04 119 59	05	808	1943			20
C7 5372-01	MARTINEZ SPRING	1875	SEC 26	T18S	R18E	B	M 36 20	24 120 24	54	000	1959	1970		10
B4 5400	MATHER	4518	SEC 02	T01S	R19E	G	M 37 53	25 119 51	10	900	1930		21	55
B5 5460	MCDIERMID STA	2990	SEC 33	T02S	R17E	H	M 37 43	18 120 05	48	000	1959	1969		22
C7 5480-01	MCKITTRICK F S	1051	SEC 21	T30S	R22E	E	M 35 18	20 119 37	20	000	1956			15
B7 5496	MEADOW LAKE	4485	SEC 11	T10S	R23E	F	M 37 04	38 119 26	00	900	1948			10
B3 5511	MELONES DAM	900	SEC 11	T01N	R13E	K	M 37 57	10 120 30	53	404	1955			15
B0 5526	MENDOTA 1 NW	172	SEC 25	T13S	R14E	H	M 36 46	23 120 23	09	013	1941			10
C0 5526-04	MENDOTA MURIETTA RCH	261	SEC 04	T15S	R14E	M	M 36 39	05 120 27	20	806	1958			10
B0 5528	MENDOTA DAM	166	SEC 19	T13S	R15E	G	M 36 47	15 120 22	12	900	1873			10
B0 5530	MENDOTA V D L FARMS	230	SEC 32	T13S	R14E	Q	M 36 44	58 120 28	00	000	1940			10
B0 5532	MERCED FIRE STN NO 2	169	SEC 25	T07S	R13E	M	37 17	43 120 29	13	900	1872			24
B0 5534	MERCED FANCHER RCH	212	SEC 29	T07S	R15E	F	M 37 17	47 120 21	09	000	1920			24
B0 5535	MERCED 2	168	SEC 14	T07S	R14E	A	M 37 18	53 120 28	12	900	1938			24
C3 5669	MIL 5 NE	3400	SEC 18	T19S	R30E	C	M 36 16	40 118 46	15	900	1957			54
C6 5669-05	MIL POTRERO	5800	SEC 24	T09N	R22W	E	S 34 51	02 119 11	18	000	1966			15
C2 5680	MINERAL KING	7975	SEC 22	T17S	R31E	M	M 36 26	00 118 35	00	900	1956	1969		54
C2 5708	MIRAMONTE HONOR CAMP	3005	SEC 31	T14S	R27E	D	M 36 40	00 119 05	00	900	1958			10
C1 5723	MITCHELL MEADOW	9700	SEC 33	T13S	R30E	M	M 36 45	00 118 43	00	900	1957			10
B4 5735	MOCCASIN	950	SEC 34	T01S	R15E	B	M 37 48	40 120 18	20	401	1935			55
B0 5738	MODESTO	91	SEC 29	T03S	R09E	H	M 37 38	48 121 00	02	900	1926			50
B0 5740	MODESTO KTRB	93	SEC 16	T03S	R09E	J	M 37 40	12 120 58	42	010	1959			50
B0 5741	MODESTO 2	92	SEC 29	T03S	R09E	M	M 37 38	36 121 00	29	900	1942			50
C5 5777	MONACHE MEADOWS	8000	SEC 10	T20S	R35E	M	M 36 13	00 118 10	00	900	1940			54
C0 5822-80	WOODY RCH	405	SEC 34	T32S	R28E	M	S 35 06	15 118 58	00	001	1963	1969		15
C1 5832	MORANE CREEK	8840	SEC 14	T14S	R31E	M	M 36 43	118 34	903		1964			54
C3 5887	MOUNTAIN HOME 2	5360	SEC 27	T19S	R30E	J	M 36 14	30 118 42	54	901	1963			54
B7 5927	MT GIVENS	9500	SEC 26	T07S	R26E	E	M 37 17	119 06	004		1963	1969		10
B0 6168	NEWMAN 2 NW	108	SEC 12	T07S	R08E	E	M 37 20	33 122 50	00	900	1889			50

TABLE A-I (Cont.)
INDEX OF CLIMATOLOGICAL STATIONS
SAN JOAQUIN VALLEY

Station		Elevation (in Feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude			Longitude			Cooperator Number	Cooperator's Index Number	Record Begin	Record End	Years Missing	County	Code
Number	Name						°	'	"	°	'	"							
C0 6230-50	NORTH BELRIDGE	630	SEC 26	T27S	R20E	F	M	35	33	04	119	47	28	000		1953			15
B7 6252	NORTH FORK R S	2630	SEC 18	T08S	R23E	M	M	37	13	57	119	30	15	900		1904			20
B0 6303	OAKDALE	155	SEC 11	T02S	R10E	N	M	37	46	10	120	50	53	000		1880		01	50
B6 6321-80	OAKHURST	2250	SEC 14	T07S	R21E	L	M	37	19	46	119	38	42	000		1961			20
C0 6393	OILFIELDS F S	950	SEC 26	T19S	R15E	F	M	36	14	50	120	18	50	808		1952			10
C7 6395	OILFIELDS JOAQUIN RDG	3620	SEC 01	T19S	R14E	M	M	36	18	00	120	24	00	900		1949			10
C0 6414	OLD RIVER 3 W	334	SEC 35	T30S	R26E	C	M	35	16		119	16		806		1965			15
C5 6462	ONYX	2700	SEC 04	T26S	R35E	K	M	35	41	00	118	14	00	903		1938			15
C0 6476	ORANGE COVE	431	SEC 13	T15S	R24E	K	M	36	37	18	119	18	40	000		1931			10
B0 6490	ORESTIMBA	110	SEC 02	T07S	R08E	D	M	37	21	42	121	03	47	013		1896			50
B5 6552	OSTRANDER LAKE	8600	SEC	T03S	R22E						119	33	00	900		1947			22
B8 6583	PACHECO PASS	850	SEC 10	T10S	R07E	B	M	37	04	00	121	11	00	900		1949			24
B8 6675	PANOCHE	1265	SEC 25	T15S	R10E	F	M	36	35	47	120	49	58	900		1922			35
B8 6676	PANOCHE 2 W	1320	SEC 21	T15S	R10E	M	M	36	36	30	120	52	48	407		1957			35
B0 6679-05	PANOCHE WATER DIST	183	SEC 14	T12S	R11E	H	M	36	53	24	120	43	43	000		1949			10
B4 6688	PARADISE MEADOW	7700	SEC 09	T02N	R21E	M	M	38	03	00	119	40	00	900		1948			55
B0 6746-01	PATTERSON	100	SEC 30	T05S	R08E	M	M	37	28	00	121	11	00	000		1912			50
B6 6754	PATTIWAY	3868	SEC 19	T10N	R23W	E	S	34	56	27	119	22	52	900		1915			15
C2 6767	PEAR LAKE	9700	SEC 24	T15S	R30E	M	M	36	36	00	118	40	00	900		1956	1969		54
B8 6847	PEIFFER RCH	1615	SEC 19	T12S	R08E	C	M	36	52	59	121	08	12	000		1954			24
B3 6893	PINECREST SUMMIT R S	5600	SEC 21	T04N	R18E	M	M	38	12		119	59		905		1964			55
B3 6893-01	PINECREST STRAWBERRY	5620	SEC 22	T04N	R18E	F	M	38	11	25	119	59	12	003		1922			55
C1 6896	PINE FLAT DAM	615	SEC 02	T13S	R24E	A	M	36	49	55	119	19	25	903		1949			10
C1 6902	PINEHURST	4050	SEC 23	T14S	R27E	D	M	36	41	54	119	00	54	905		1954			10
C0 7077	PORTERVILLE	393	SEC 26	T21S	R27E	R	M	36	03	58	119	01	14	900		1893			54
C0 7079	PORTERVILLE 3 W	413	SEC 20	T21S	R27E	R	M	36	04	50	119	04	14	000		1958			54
C5 7093	PORTUGUESE MEADOW	7000	SEC 31	T24S	R32E	M	M	35	48	00	118	34	00	900		1953			54
C4 7096	POSEY 3 E	4920	SEC 28	T24S	R31E	M	M	35	48	00	118	38	00	900		1954			02 54
C0 7098-07	POSO CREEK	670	SEC 28	T27S	R27E	F	M	35	33	15	119	04	25	000		1967	1969		15
C0 7098-11	POSO RCH	370	SEC 03	T27S	R25E	J	M	35	36	30	119	15	45	001		1913	1969		15
B0 7099-01	POSO CANAL CO HDQ	125	SEC 12	T11S	R13E	P	M	36	58	57	120	30	04	013		1955			10
C5 7179	QUAKING ASPEN	7200	SEC 08	T21S	R32E	M	M	36	07	00	118	32	00	900		1955			54
C1 7259	RATTLESNAKE CREEK	9900	SEC 08	T11S	R30E	M	M	36	59	00	118	43	00	900		1961			10
B6 7270-01	RAYMOND 3 SSW	635	SEC 06	T09S	R19E	J	M	37	10	32	119	55	55	000		1940			20
B6 7272-01	RAYMOND 10 N	1640	SEC 32	T06S	R19E	A	M	37	22	24	119	54	24	000		1957			22
B6 7276	RAYMOND 12 NNE	1600	SEC 25	T06S	R19E	R	M	37	22	37	119	49	58	000		1954			22
C0 7288	RECTOR	344	SEC 03	T19S	R25E	J	M	36	18	15	119	14	34	004		1888			54
C0 7354-80	REEDLEY MVFD	345	SEC 27	T15S	R23E	M	M	36	37		119	27		808		1962			10
B0 7447-80	RIPON	65	SEC 20	T02S	R08E	M	M	37	44	33	121	07	21	000		1963			39
C0 7460	RIVERDALE	220	SEC 24	T17S	R19E	P	M	36	25	58	119	51	36	000		1917			10
B6 7528	ROCKY VILLAGE	820	SEC 19	T06S	R17E	K	M	37	20	45	120	08	42	000		1957			22
C3 7529	ROGERS CAMP	6240	SEC 09	T21S	R31E	M	M	36	04	24	118	38	12	901		1964			54
C0 7555	ROSEDALE	380	SEC 01	T29S	R26E	R	M	35	25	40	119	07	42	001		1914	1969		15
B7 7560	ROSE MARIE MEADOW	10000	SEC 14	T07S	R28E	M	M	37	19	00	118	52	00	900		1953			10
C5 7579	ROUND MEADOW	9000	SEC 36	T22S	R33E	M	M	35	58	00	118	21	00	900		1947			54
B4 7623	SACHES SPRINGS	7900	SEC 25	T03N	R19E	M	M	38	06	00	119	51	00	900		1948			55
C0 7753	SAN EMIGDIO RCH	1450	SEC 36	T11N	R22W	L	S	34	59	45	119	10	59	900		1901	1969		15
C0 7800-02	SANGER 1 NE	375	SEC 11	T14S	R22E	K	M	36	43	30	119	32	36	000		1959			10
C0 7800-03	SANGER R S	375	SEC 11	T14S	R22E	E	M	36	43	48	119	33	18	808		1958			10
C0 7816	SAN JOAQUIN	174	SEC 23	T15S	R16E	J	M	36	36	25	120	11	15	000		1919			10
B7 7817	SAN JOAQUIN EXP RANGE	1100	SEC 06	T10S	R21E	E	M	37	05	40	119	43	38	900		1934			20
C0 7819-80	SAN JOAQUIN MVFD	174	SEC 23	T15S	R16E	J	M	36	36	28	120	11	18	008		1962			10
B8 7846	SAN LUIS DAM	277	SEC 14	T10S	R08E	M	M	37	03		121	04		904		1959			24
B0 7855	SAN LUIS CANAL CO HQ	99	SEC 31	T09S	R12E	P	M	37	06	07	120	42	04	013		1944			24
C0 7987-80	SANTIAGA RANCH	437	SEC 27	T12N	R22W	S	S	35	05	35	119	12	35	000		1963			15
B0 8316	SNELLING	259	SEC 04	T05S	R14E	M	M	37	31	24	120	26	18	000		1882		19	24
B0 8316-05	SNELLING 3 WNW	360	SEC 36	T04S	R13E	J	M	37	32	35	120	28	07	000		1949			24
B5 8318	SNOW FLAT	8700	SEC 19	T01S	R23E	M	M	37	50	00	119	30	00	900		1947			24
C1 8323-01	SOAPPORT SADDLE	3830	SEC 28	T10S	R25E	P	M	37	01	30	119	15	06	905		1960			10
B4 8353	SONORA R S	1745	SEC 36	T02N	R14E	M	M	37	59	00	120	23	00	900		1887			55
C0 8375-50	SOUTH BELRIDGE	575	SEC 28	T28S	R21E	R	M	35	27	23	119	42	37	000		1938			15
B0 8378	SOUTH DOS PALOS	116	SEC 22	T11S	R12E	E	M	37	58	45	120	38	48	000		1938			24
B5 8380	SO ENTRANCE YOSEMITE	5120	SEC 12	T05S	R21E	N	M	37	30	26	119	37	55	900		1941			22
C0 8407-11	SOUTH LAKE FARMS HDQ	190	SEC 13	T23S	R21E	A	M	35	56	02	119	38	46	000		1959			16
B3 8450	SPRING GAP FOREBAY	3000	SEC 27	T04N	R17E	H	M	38	10	06	120	06	08	003		1921			55
C3 8455	SPRINGVILLE 7 ENE	2470	SEC 26	T20S	R30E	D	M	36	09	47	118	42	21	900		1953			54
C3 8460	SPRINGVILLE R S	1050	SEC 02	T21S	R29E	B	M	36	08	09	118	48	40	900		1924			54
C3 8463	SPRINGVILLE TULE HDW	4070	SEC 07	T20S	R31E	Q	M	36	11	35	118	39	23	900		1907			54
C1 8474-80	SQUAW VALLEY FR	1750	SEC 35	T13S	R25E	P	M	36	44	58	119	12	21	808		1961			10
B3 8499	STANISLAUS PH	1130	SEC 06	T03N	R15E	L	M	38	08	23	120	22	10	900		1957			55

TABLE A-1 (Cont.)
INDEX OF CLIMATOLOGICAL STATIONS
SAN JOAQUIN VALLEY

Station		Elevation (in feet)	Section	Township	Range	40-Acre Tract Base & Meridian	Latitude	Longitude	Cooperator Number	Cooperator's Index Number	Record Began	Record Ended	Years Missing	County Code
Number	Name													
C1 8510	STATE LAKES	10300	SEC 34	T11S	R31E	M	36 56 00	118 35 00	900		1955		10	
C3 8620	SUCCESS DAM	590	SEC 35	T21S	R28E	L	36 03 00	118 55 00	903		1959		54	
C1 8643	SUMMIT MEADOW	6240	SEC 02	T10S	R25E	Q	37 05 12	119 12 36	000		1960		10	
C7 8752	TAFT	1025	SEC 14	T32S	R23E	J	35 08 34	119 27 53	900		1940		15	
C7 8755	TAFT KTKR RADIO	1030	SEC 14	T32S	R23E	G	35 08 50	119 28 18	000		1954		15	
C6 8826	TEHACHAPI	3975	SEC 21	T32S	R33E	M	35 08 00	118 27 00	900		1876		15	
C6 8832	TEHACHAPI AIRPORT	3975	SEC 21	T32S	R33E	C	35 08 05	118 26 31	900		1940		15	
C0 8839	TEJON RANCHO	1425	SEC 24	T11N	R18W	H	35 01 35	118 44 38	900		1895		15	
C5 8857-10	TEN HIGH MINE	5200	SEC 03	T27S	R31E	A	35 36 49	118 37 30	000		1968		15	
C2 8868	TERMINUS DAM	965	SEC 36	T17S	R27E	E	36 24 37	119 00 20	903		1959		54	
C7 8893-80	THIRTY-TWO CORRAL	1700	SEC 32	T18S	R15E	P	36 18 47	120 21 51	000		1959 1970		10	
C2 8912	THREE RIVERS 6 SE	2200	SEC 16	T18S	R29E	C	36 22 00	118 51 00	900		1940		54	
C2 8914	THREE RIVERS PH NO 2	950	SEC 07	T17S	R29E	Q	36 27 40	118 52 40	900		1909		54	
C2 8917	THREE RIVERS PH NO 1	1140	SEC 08	T17S	R29E	K	36 27 58	118 51 40	900		1940		54	
C0 9006	TRANQUILLITY GLOTZ	165	SEC 16	T15S	R16E	C	36 37 57	120 14 13	000		1953		10	
B6 9020-15	TRIANGLE-DESMOND	3150	SEC 19	T05S	R20E	A	37 29 10	119 49 06	000		1965		22	
C1 9025	TRIMMER R S	736	SEC 12	T12S	R24E	A	36 54 05	119 17 16	905		1948		10	
C0 9051	TULARE	293	SEC 01	T20S	R24E	N	36 12 45	119 19 50	004		1919		54	
C0 9051-04	TULARE DIST SEC 27	179	SEC 27	T21S	R32E	A	36 04 41	119 47 33	002		1953 1969		16	
C0 9052	TULEFIELD	300	SEC 18	T22S	R28E	B	35 09 00	119 01 00	900		1948 1970		15	
C3 9059	TULE RIVER INTAKE	2450	SEC 26	T20S	R30E	D	36 09 42	118 42 22	004		1910		54	
C3 9060	TULE RIVER PH	1240	SEC 06	T21S	R30E	D	36 08 07	118 47 15	004		1910		54	
C5 9061	TUNNEL R S	8950	SEC 10	T18S	R34E	M	36 22 00	118 17 00	900		1945		54	
B3 9062	TULLOCH DAM	515	SEC 01	T01S	R12E	L	37 52 30	120 36 12	404		1958		05	
B4 9062-90	TUOLUMNE MAINT YARD	2690	SEC 05	T01N	R16E	R	37 57 55	120 13 55	000		1969		55	
B4 9063	TUOLUMNE MEADOWS	8600	SEC 03	T01S	R24E	E	37 53 00	119 20 00	900		1947		55	
B0 9073	TURLOCK	115	SEC 22	T05S	R10E	D	37 29 28	120 51 00	900		1893		50	
B0 9073-01	TURLOCK 5 SW	76	SEC 30	T05S	R10E	Q	37 27 52	120 54 39	000		1958		50	
B0 9073-02	TURLOCK 8 WSW	60	SEC 28	T05S	R09E	D	37 28 22	120 59 30	000		1958		50	
C3 9120	UHL R S	3680	SEC 32	T23S	R31E	H	35 53	118 39	900		1965		54	
C0 9145	U S COTTON FIELD STN	367	SEC 33	T27S	R25E	J	35 32 00	119 16 40	906		1922		15	
B7 9301	VERMILLION VALLEY	7520	SEC 26	T06S	R27E	M	37 22 00	118 59 00	900		1946		10	
C0 9304	VESTAL	500	SEC 17	T24S	R27E	M	35 50 24	119 05 12	004		1920		54	
C1 9328	VIDETTE MEADOW	9500		T13S	R33E	M	36 45	118 25	901		1964		10	
C0 9367	VISALIA	354	SEC 29	T18S	R25E	M	36 14 45	119 17 18	900		1903		54	
C0 9369	VISALIA 4 E	357	SEC 36	T18S	R25E	D	36 19 32	119 13 24	000		1959		54	
C5 9417-10	WALKER BASIN	3450	SEC 10	T29S	R32E	E	35 25 17	118 32 35	000		1968		15	
C0 9452	WASCO	333	SEC 12	T27S	R24E	J	35 35 35	119 19 57	900		1899		15	
B5 9482	WAWONA R S	3975	SEC 34	T04S	R21E	P	37 32	119 40	900		1941		22	
C5 9512	WELDON 1 WSW	2680	SEC 23	T26S	R34E	D	35 40 00	118 18 00	900		1940		15	
B6 9556-80	WESTFALL R S	4795	SEC 35	T05S	R21E	M	37 26 58	119 38 59	905		1961		20	
C0 9560	WESTHAVEN	285	SEC 34	T19S	R18E	R	36 13 38	119 59 40	900		1925		10	
B0 9565	WESTLEY	85	SEC 33	T04S	R07E	B	37 33 00	121 12 00	000		1928		50	
C1 9600	WEST WOODCHUCK	9100	SEC 28	T10S	R28E	M	37 01 48	118 55 06	903		1969		10	
C5 9602	WET MEADOW	8950	SEC 13	T18S	R32E	R	36 20 56	118 34 16	900		1959		54	
C2 9629	WHITAKER FOREST	5360	SEC 16	T14S	R28E	Q	36 42 05	118 55 56	815		1966		54	
B6 9640-80	WHITE ROCK PRESTON	984	SEC 07	T07S	R18E	K	37 20 12	120 02 18	903		1950		22	
B6 9640-80	WILBUR DITCH	210	SEC 18	T23S	R21E	D	35 36 10	119 45 10	000		1962		16	
C1 9749	WISHON LAKE	6560	SEC 01	T15S	R27E	M	37 00 40	118 58 20	003		1957		10	
C5 9754	WOFFORD HEIGHTS	2700	SEC 32	T25S	R33E	H	35 43 00	118 27 00	900		1894		15	
C4 9805	WOODY	1630	SEC 03	T26S	R29E	C	35 42 02	118 50 34	808		1956		15	
B5 9855	YOSEMITE NAT PARK	3985	SEC 20	T02S	R22E	M	37 45 00	119 35 00	900		1904		22	

TABLE A-2
PRECIPITATION DATA

The definition of terms and abbreviations used in this table follows:

- No record or record incomplete.
- * Amount included in the following measurement. Time distribution unknown.
- E Wholly or partially estimated.
- T Trace, an amount too small to measure.
- V Includes total from previous month.
- RB Record begins.
- RE Record ends.

Precipitation values are shown to the nearest hundredth (.01) of an inch, except where Fischer & Porter recording rain gages are used, these values are shown to the nearest tenth (.1) of an inch.

TABLE A-2
PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY TO JUNE 30	1969												1970				TOTAL TO JUNE 30
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
SAN JACINTO BASIN																		
SAN JACINTO VALLEY BASIN																		
ATWATER CREEK	4			22	1	4												
CATTLE CREEK	1,134	T		24		1,110	4											
DETA BASIN	8,408	T		1		8,407												
DENAIR 3 NNE	10,164	T		35	1,019	2,229	6							4				
DENAIR BARFIELD	11,164	T		35	1,019	2,229	6							4				
EL SOLYO RCH	8,85	T		17	1,778	6												
FARROW RCH CAMP 3	4	T		13	RE													
FISHCREEK 4 W	8,64	T		163	1													
GUSTINE 5 SW	9,65	T		185	1,661	6												
GUSTINE SNYDER	9,65	T		185	1,661	6												
GUSTINE LUREMST	9,63	T		182	1,651	6												
GUSTINE 5 SW	9,63	T		182	1,651	6												
HIZAM	8,73	T		143	1,590	6												
KNOTHES FERRY 2 SE	17,20	T		118	1,61	241	6											
LE GRAND	10,86	T		111	1,57	1,64	2,22											
LE GRAND 6 W	11,18	T		111	1,57	1,64	2,22											
LIVINGSTON CITY HALL	11,18	T		111	1,57	1,64	2,22											
LIVINGSTON 6 W	8,73	T		143	1,590	6												
LOS BANGS 5 S	8,73	T		143	1,590	6												
LOS BANGS FIELD STA	8,73	T		143	1,590	6												
LOS BANGS FIELD	8,73	T		143	1,590	6												
LOS BANGS 10 YARD	8,73	T		143	1,590	6												
MADERA 4	6,43	T		113	1,52	1,59	1,64											
MADERA 6	6,43	T		113	1,52	1,59	1,64											
MENDOTA 1 NW	6,43	T		113	1,52	1,59	1,64											
MENDOTA 1AM	7,28	T		113	1,52	1,59	1,64											
MENDOTA VDL FARMS	5,14	T		113	1,52	1,59	1,64											
MERCED FIRE STA 2	12,09	T		113	1,52	1,59	1,64											
MERCED FARMER RCH	11,15	T		113	1,52	1,59	1,64											
MERCED 2	11,15	T		113	1,52	1,59	1,64											
MERCED	10,82	T		113	1,52	1,59	1,64											
MODESTO MTR	11,45	T		113	1,52	1,59	1,64											
MODESTO 4	76,98	T		113	1,52	1,59	1,64											
NEWHAFF 2 NW	7,29	T		113	1,52	1,59	1,64											
ORANGE	11,53	T		113	1,52	1,59	1,64											
ORESTIMA	8,69	T		113	1,52	1,59	1,64											
PANACHE WATER DIST	6,83	T		113	1,52	1,59	1,64											
PATTERSON	6,79	T		113	1,52	1,59	1,64											
POSO CANAL CO HDG	9,15	T		113	1,52	1,59	1,64											
RIPON	11,39	T		113	1,52	1,59	1,64											
SAN LUIS CANAL CO HL	9,11	T		113	1,52	1,59	1,64											
SNELLING	14,31	T		113	1,52	1,59	1,64											
SNELLING 3 NW	12,78	T		113	1,52	1,59	1,64											
SWAN RANCH	12,78	T		113	1,52	1,59	1,64											
SOUTH DGS PALMS	8,29	T		113	1,52	1,59	1,64											
TUPLOCK	9,54	T		113	1,52	1,59	1,64											
TUPLOCK 5 SW	14,16	T		113	1,52	1,59	1,64											
TUPLOCK 8 SW	9,20	T		113	1,52	1,59	1,64											
WESTLEY	9,26	T		113	1,52	1,59	1,64											
STANISLAUS RIVER B3																		
ANGELS CAMP	36,2	T		113	1,52	1,59	1,64											
BARDELEY DAM	42,67	T		113	1,52	1,59	1,64											
BEAR VALLEY-VALPINE	37,39	T		113	1,52	1,59	1,64											
CALAVAS RANGER STA	51,6	T		113	1,52	1,59	1,64											
COLUMBIA	37,39	T		113	1,52	1,59	1,64											
COPPERPOLE	26,45E	T		113	1,52	1,59	1,64											
HONTER DAM	76,98	T		113	1,52	1,59	1,64											
PINECREST STRAWBERRY	44,67	T		113	1,52	1,59	1,64											
PINECREST SUMMIT P S	44,68	T		113	1,52	1,59	1,64											
SPRING GAP FURBERAY	45,69	T		113	1,52	1,59	1,64											
STANISLAUS P H	22,32	T		113	1,52	1,59	1,64											
TULLOCK DAM	21,63	T		113	1,52	1,59	1,64											
TULLOCK RIVER B4																		
CHERRY VALLEY DAM	51,35	T		113	1,52	1,59	1,64											
DON PEDRO RESERVOIR	14,45	T		113	1,52	1,59	1,64											
EARLY INTAKE P H	74,26	T		113	1,52	1,59	1,64											
GROVELAND 2	34,41	T		113	1,52	1,59	1,64											
GROVELAND P S	37,76	T		113	1,52	1,59	1,64											
HETCH HETCHY	4,76	T		113	1,52	1,59	1,64											
HODGSON WARDEN	44,67	T		113	1,52	1,59	1,64											
LAKE ELEANOR	44,42	T		113	1,52	1,59	1,64											
MATHER	5,41	T		113	1,52	1,59	1,64											
MACASIN	44,16	T		113	1,52	1,59	1,64											
SHIMRA P S	34,43	T		113	1,52	1,59	1,64											
TULLOCKE MAINT YARD	43,74	T		113	1,52	1,59	1,64											
MERCED RIVER B5																		
BEAR VALLEY	26,47	T		113	1,52	1,59	1,64											
CATHAYS VALLEY 1 NW	16,47	T		113	1,52	1,59	1,64											
CROCKETTVILLE FFS	23,34	T		113	1,52	1,59	1,64											
DUDLEY	55,53	T		113	1,52	1,59	1,64											
EXCHELTER RESERVOIR	19,51	T		113	1,52	1,59	1,64											
GREENEYVILLE S	19,01	T		113	1,52	1,59	1,64											
HORNITES RESERVOIR RCH	2,16	T		113	1,52	1,59	1,64											
HORNITES GILES RCH	17,89	T		113	1,52	1,59	1,64											
HORNITES USCE	16,58E	T		113	1,52	1,59	1,64											
INDIAN CULCH	0,19	T		113	1,52	1,59	1,64											

TABLE A - 2 (Cont.)

PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO INF	1969										1970								TOTAL OCT 1 TO SEP 30
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP				
UNDEGRAVE	1.7				1.72	2.1	1.36	11.49	1.4	1.7	1.23		2.13	1.7	1.7		31.45			31.45
MAPIROSA	2.7				2.7	2.17	2.17	10.68	2.7	4.28	1.42		2.16	1.2	1.6		35.41			35.41
MAPIROSA REV. 1	2.7				3.19	2.37	4.13	10.35	2.5	4.44	1.47		2.22				30.55			30.55
MAPIROSA F 2	2.7				2.17	2.45	4.38	9.65	3.62	3.25	1.79		1.72	1.70	0.05		28.78			28.78
MC CLELLAND F 2					RE															
ST. ENTRANCE 1 SEMIT	42.23				5.88	2.15	5.62	15.64	4.41	5.24	1.69	T	1.68	T			42.23			42.23
ANDRUS F 2	1.7				1.16	1.46	4.05	17.61	3.69	6.76	1.98		1.72	0.00			37.04			37.04
FRESHWATER TAP	2.7				4.74	1.66	3.32	14.18	3.32	4.13	1.74		1.55	0.00			36.74			36.74
FRESHWATER-CHOCOMA F 2																				
ARMANETTE 2 SON	27.45				2.55	1.26	3.77	34.26	3.45	2.35	1.13	0.00	1.69	0.00	0.00		27.05			27.05
CATHY VAL BULL RID. P	21.3				1.98	2.21	2.82	6.92	1.91	3.32	0.59	0.00	1.91	0.00	0.00		21.57			21.57
CATHY VAL STORHOUSE	21.3				1.98	2.40	3.71	6.59	2.54	2.34	0.32	0.00	1.75	0.00	0.00		21.45			21.45
CLAREBOLD	21.3				1.12	1.55	1.79	1.33	4.14	1.61	0.00	1.53	0.00	0.00	0.00		23.52			23.52
CAUTION	12.14				1.08	0.83	0.94	1.71	4.38	1.42	0.10	0.31	0.14	0.00	0.00		12.56			12.56
HIDDEN VALLEY	24.30				2.44	1.84	3.37	10.22	2.20	5.40	1.01	T	2.09	T	0.00	0.00	29.01			29.01
MAPIROSA S ESE	3.16				3.32	1.85	3.71	11.06	2.70	4.46	0.96	T	2.12	T	0.00	0.00	30.38			30.38
MAHURST	2.42E				1.63	1.53	2.89	11.48	2.28	4.24	1.20	0.00	1.32	0.00E	0.00E		27.27E			27.27E
RAYMOND 3 ESE																				
RAYMOND 10 N	2.19				T	2.30	1.45	3.78	9.83	2.31	4.04	0.48	0.00	1.70	0.00		25.89			25.89
RAYMOND 12 NNE	21.15				2.28	1.48	3.20	3.35	2.91	3.12	0.77	0.00	1.90	0.00	0.00		25.01			25.01
POCKY VILLAGE	1.65				0.92	1.49	2.27	2.03	5.52	2.73	1.77	0.30	0.70	1.52	0.00	0.00	17.63			17.63
THAMBLE-DESMOND	3.79				1.78	4.11	1.87	3.83	11.82	3.49	4.26	1.09	T	1.76	0.00	0.00	32.74			32.74
METRAL 10 S	16.31E				1.12	1.26	2.23	3.32	2.63	2.70	0.00	0.00	2.17	0.00	0.00		41.09			41.09
WHITE ROCK PRESTON	16.31E				1.65E	1.74	2.28	6.32	2.69	4.20	0.25	0.00	1.60E	0.00E	0.00E		18.26E			18.26E
SAN JOAQUIN RIVER B*																				
AUBREY 1 SON																				
RIO CREEK PH 1	29.7				1.33	1.92	2.46	4.31	11.07	2.72	3.11	3.14	0.20	1.09	0.01	0.00	29.83			29.83
RIO CREEK PH 2	29.7				1.4	1.84	2.13	3.53	10.57	3.36	2.46	0.30	0.54	0.00	0.00	0.00	27.41			27.41
RIO CREEK PH 3	21.14				1.15	1.29	1.80	2.86	3.45	2.45	1.00	1.06	0.00	0.76	0.00	0.00	29.65			29.65
RIO CREEK PH 8	29.41				1.28	2.12	2.14	3.97	9.74	2.77	2.04	2.35	3.20	0.42	0.00	0.00	25.73			25.73
STANLEY VALLEY PH	34.18				1	2.94	2.37	4.41	12.65	4.34	4.41	1.46	0.31	1.58	0.31	0.00	34.34			34.34
FLORANCE LAKE	12.4				1.22	0.87	2.62E	7.39E	2.13	1.93	1.42	0.3	0.57E	1.14	T	0.02	18.39E			18.39E
FLORANCE TOWERMAN CAMP	12.4				1.3	0.45	0.92	2.01	4.43	1.15	2.45	0.17	0.00	0.53	0.00	0.00	12.64			12.64
FLORANCE STILLWELL	16.42				1.41	1.76	1.67	6.23	2.29	3.80	0.52	0.22	1.16	0.00	0.00	0.00	18.94			18.94
HUNTINGTON LAKE	37.52				1.36	2.74	2.43	5.29	13.04	3.40	4.35	4.40	0.00	1.23	0.00	0.00	36.63			36.63
MEADOW LAKE	47.39				1.42	1.21	2.07	4.46	8.12	2.18	3.57	1.10	0.00	0.73	T	0.00	22.44			22.44
MT GIVENS					RE															
NORTH FORK R F	3.14E				2.73E	1.78	4.63	11.13	2.27	4.41	2.31	0.00	1.11	0.00	T	0.00	30.07E			30.07E
SAC JOHNSON EXP FGE	16.14				0.68	1.18	2.60	5.52	2.10	2.24	0.21	0.00	0.98	0.00	0.00	0.00	15.71			15.71
SAN JOSE VAL WESTSIDE BR																				
DEL PUERTO RO CAMP	17.54				0.65	0.72	0.93	2.29E	7.50E	1.60E	1.48	0.00	0.01	0.00	0.00	0.00	16.59			16.59
LOPER	1.7				1.46	0.33	0.47	0.21	0.67	1.34	0.00	0.00	0.00	0.00	0.00	0.00	10.71			10.71
LITTLE PANCHO DET RES	1.69				1.45	0.56	0.50	0.36	2.14	3.55	1.74	0.21	0.30	0.00	0.30	0.00	5.14			5.14
LUS BANGS ARBURY FCH	1.7				0.66	0.62	0.72	0.61	2.91	0.77	0.49	1.17	0.00	0.02	0.00	0.00	6.24			6.24
LUS BANGS DET RES	5.11				1.27	0.93	0.69	0.45	3.31	0.74	0.81	0.30	0.46	0.00	0.00	0.00	6.84			6.84
LACHICO PASS	12.6				1.19	0.94	1.74	5.34	1.37	1.34	0.21	0.3	0.08	0.00	0.00	0.00	12.37			12.37
PANCHO	1.7				1.45	0.33	0.24	0.55	2.43	1.43	1.11	0.00	0.00	0.00	0.00	0.00	8.46			8.46
PANCHO 2 W	1.7				0.90	0.38	0.24	0.86	4.24	1.62	1.26	0.17	0.00	0.00	0.00	0.00	8.02			8.02
PELLETER FCH	1.7				1.48	0.74	3.21	15.17	2.79	2.47	1.15	0.00	0.18	0.00E	0.00E	0.00E	21.21E			21.21E
SAC JOSE CAM	1.7				1.48	1.72	0.71	4.13	0.65	1.15	1.15	0.00	0.08	0.00	0.00	0.00	8.74			8.74
LAKE LAKE BASIN																				
LAKE LAKE VAL FLOOR C																				
MAPIROSA	1.7				1.18	2.39	1.47	1.44	1.22	1.83	0.43	0.00	0.00	0.00	0.00	0.00	5.36			5.36
MAJIN	2.71				2.69	2.60	1.35	7.74	1.22	1.65	0.24	0.00	1.00	0.00	0.00	0.00	3.90			3.90
MAJIN SPRING	1.7				0.46	1.30	2.20	1.66	1.46	0.96	0.14	0.00	0.00	0.00	0.00	0.00	4.82			4.82
MAKERSFIELD 1 W					RE															
MAKERSFIELD WE AP	3.7				T	1.42	3.16	1.17	1.56	3.46	0.16	0.00	T	T	0.00	0.00	3.35			3.35
MAJIN					RE															
MAJIN CREEK	4.11E				0.93	0.79	1.45	RE	1.10	1.47	0.61	0.07E	0.00	0.00	0.00	0.00	4.15E			4.15E
MAJIN VISTA FCH					0.93	0.79	1.45	RE	1.10	1.47	0.61	0.07E	0.00	0.00	0.00	0.00	4.15E			4.15E
MAJIN VISTA FCH MAL	3.14E				0.93	0.79	1.45	RE	1.10	1.47	0.61	0.07E	0.00	0.00	0.00	0.00	4.15E			4.15E
MAJIN VISTA FCH MAL 1	3.14E				0.93	0.79	1.45	RE	1.10	1.47	0.61	0.07E	0.00	0.00	0.00	0.00	4.15E			4.15E
MAJIN VISTA FCH MAL 2	3.14E				0.93	0.79	1.45	RE	1.10	1.47	0.61	0.07E	0.00	0.00	0.00	0.00	4.15E			4.15E
MAJIN VISTA FCH MAL 3	3.14E				0.93	0.79	1.45	RE	1.10	1.47	0.61	0.07E	0.00	0.00	0.00	0.00	4.15E			4.15E
MAJIN VISTA FCH MAL 4	3.14E				0.93	0.79	1.45	RE	1.10	1.47	0.61	0.07E	0.00	0.00	0.00	0.00	4.15E			4.15E
MAJIN VISTA FCH MAL 5	3.14E				0.93	0.79	1.45	RE	1.10	1.47	0.61	0.07E	0.00	0.00	0.00	0.00	4.15E			4.15E
MAJIN VISTA FCH MAL 6	3.14E				0.93	0.79	1.45	RE	1.10	1.47	0.61	0.07E	0.00	0.00	0.00	0.00	4.15E			4.15E
MAJIN VISTA FCH MAL 7	3.14E				0.93	0.79	1.45	RE	1.10	1.47	0.61	0.07E	0.00	0.00	0.00	0.00	4.15E			4.15E
MAJIN VISTA FCH MAL 8	3.14E				0.93	0.79	1.45	RE	1.10	1.47	0.61	0.07E	0.00	0.00	0.00	0.00	4.15E			4.15E
MAJIN VISTA FCH MAL 9	3.14E				0.93	0.79	1.45	RE	1.10	1.47	0.61	0.07E	0.00	0.00	0.00	0.00	4.15E			

PRECIPITATION DATA

PRECIPITATION DATA

21

TABLE A-2 (Cont.)
PRECIPITATION DATA

PRECIPITATION IN INCHES

STATION NAME	TOTAL JULY 1 TO JUNE 30	1969						1970								TOTAL OCT 1 TO SEPT 30	
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG		SEP
KERN RIVER PH NO .	5.64	.42		T	1.11	1.61	.41	1.27	1.27	1.17	.54		1.12				4.19
ONOX	5.40	0.44		0.70	0.00	0.58	0.03	2.22	1.81	1.44	1.09		1.66				1.42
TEN HIGH MINE	21.07	0.46		1.2	1.51	1.35	2.04	4.67	4.81	2.69	1.88		1.24				20.61
WELDON 1 NW	6.398	1.63		0.1	0.35	0.49	0.00	2.16	1.15	1.55	2.00E		1.76				7.265
WOLFORD HEIGHTS	8.74	0.30	T	1.35	1.78	0.45	0.46	3.89	1.44	1.49	0.25		1.14	1.03			8.17
TEHACHAPI MOUNTAINS CR																	
CHUCAPATE R S	12.30E	1.10	T	1.00	0.00	1.20	2.00E	1.40	4.00	1.40	1.20	0.00	1.00	0.50	1.00	1.00	12.60E
CUMMINGS VALLEY 2	8.94	0.06		1.00	0.04	0.91	0.45	3.60	1.17	2.17	0.43	0.00	1.00	0.04	1.00	1.00	8.92
KEENE	12.53	0.17		0.01	0.06	0.58	2.04	3.84	2.02	2.62	1.29	T	1.00	0.00	1.00	1.00	12.45
LEBEC	12.22	0.07	0.00	0.00	0.17	0.84	0.81	1.38	4.00	3.14	1.74	0.00	1.02	0.00	0.00	1.00	12.18
LOSAINE	10.08E	0.34	0.00	0.15	0.07	0.76	1.21	3.71	1.60	2.16	0.90E	0.00	1.00	0.00	0.00	1.00	10.49E
MIL PUTREDO	18.75	1.13	0.04	T	0.98	1.76	3.70	2.46	6.71	2.05	0.79	T	0.02	T	T	1.00	18.43
FATTIMAY	6.50	0.31	0.00	0.00	0.19	0.48	1.15	0.76	1.61	1.60	0.40	0.00	T	T	0.00	1.00	6.19
TEHACHAPI	8.26	0.26	0.00	0.12	0.08	0.75	0.50	2.37	3.24	3.25	0.71	T	T	T	0.00	1.00	7.88
TEHACHAPI AP	6.50E	1.19	0.00	0.15	0.05	0.69	0.25	1.64	2.34	0.81	0.35E	0.00	0.03	0.05	0.00	1.00	6.21E
WALKER BASIN	14.64	0.32	0.00	0.00	0.14	0.86	1.11	6.85	1.70	2.47	1.12	0.00	1.07	0.10	0.00	0.00	14.42
TULARE L BAS WESTSIDE CT																	
ANDETTE	-	0.00	0.00	0.07	0.00	0.55	0.45	2.04	-	-	-	-	-	-	-	-	-
AVENAL 8 SW	7.08	0.17	0.00	0.19	0.18	0.28	0.47	2.19	1.22	2.38	0.00	0.00	0.00	0.00	0.00	0.00	6.72
AVENAL 6 SSW	6.74E	0.06	0.00	0.10	0.22E	0.34	0.42	2.52	0.87	2.11	0.00	0.00	T	0.00	0.00	0.00	6.56E
CHICO RANCHO	6.50	0.10	0.00	0.46	0.21	0.31	0.28	2.33	1.63	1.34	0.04	0.00	T	0.00	0.00	0.00	6.14
CHOLANE TWISSELMAN	6.37	0.10	0.00	0.54	0.15	0.45	0.38	1.84	1.31	2.13	0.00	0.00	0.00	0.00	0.00	0.00	6.23
COALINGA ROBERTS RCH	8.44	0.00	0.00	0.24	0.21	0.45	0.54	2.77	1.05	3.40	0.00	0.00	0.00	0.00	0.00	0.00	8.42
COALINGA 14 NW	11.80	0.00	0.00	0.84	0.50	0.79	0.85	3.63	2.41	2.71	0.07	0.00	T	0.00	1.00	0.00	10.96
DOMINGUE RCH	5.61E	T	0.00	0.15	0.08	0.68	0.23	1.96	1.21	1.28	T	0.00	0.00E	0.00E	0.00E	0.00E	5.40E
DOMINGUE SPRINGS	2.04	0.00	0.00	0.00	0.00	0.70	0.27	2.93	1.64	1.35	0.00	0.00	0.00	0.00E	0.00E	0.00E	7.09E
FELLOWS	3.57	0.00	0.00	0.01	T	0.31	0.38	0.77	1.31	0.60	0.14	0.00	0.00	0.00	0.00	0.00	3.56
MARICOPA F S	3.43	0.58	0.00	0.02	0.01	0.09	0.41	0.71	0.81	0.80	0.00	0.00	0.00	0.00	0.00	0.00	2.85
MARTINEZ SPRINGS	7.34E	0.00E	0.00E	0.00E	0.70	0.74	0.21	3.05	1.75	1.60	0.00	0.00	0.00	0.00E	0.00E	0.00E	7.34E
MC KITTRICK F S	3.77	0.00	0.00	T	T	0.24	0.35	0.90	0.76	0.70	0.02	0.00	0.00	0.00	0.00	0.00	2.97
TAPT	3.15	0.20	0.00	0.00	0.00	0.42	0.31	0.51	1.04	0.51	0.18	0.00	0.00	0.00	0.00	0.00	2.96
TAPT MTR	3.28	0.18	0.00	T	T	0.02	0.32	0.35	0.64	0.69	0.92	0.16	0.00	T	0.00	0.00	3.11
THIRTY-TWO CORRAL	7.05E	0.00E	0.00E	0.00E	0.00	0.65	0.71	2.85	1.54	1.30	0.00	0.00	0.00	0.00E	0.00E	0.00E	7.05E

TABLE A-3

STORAGE GAGE PRECIPITATION DATA

SAN JOAQUIN VALLEY

Station	Agency	1969-70 Season		
		Measurement Period		Precipitation In Inches
SAN JOAQUIN RIVER BASIN				
STANISLAUS RIVER B3				
HIGHLAND LAKES	DEPT OF WATER RESOURCES	8- 6-69	7- 8-70	38.55
LAKE ALPINE	DEPT OF WATER RESOURCES	8- 6-69	7- 8-70	71.40
TUOLUMNE RIVER B4				
BEEHIVE MEADOW	HETCH HETCHY WATER SUPPLY	8-26-69	9-15-70	53.34
GRACE MEADOW	HETCH HETCHY WATER SUPPLY	10- 1-69	9-17-70	33.13
HUCKLEBERRY LAKE	HETCH HETCHY WATER SUPPLY	9- 9-69	9-18-70	55.26
LOWER KIBBY RIDGE	HETCH HETCHY WATER SUPPLY	10-11-69	9- 9-70	60.14
PARADISE MEADOW	HETCH HETCHY WATER SUPPLY	9-29-69	9-16-70	54.28
SACHES SPRINGS	HETCH HETCHY WATER SUPPLY	8- 7-69	9- 9-70	61.24
TUOLUMNE MEADOW	DEPT OF WATER RESOURCES	8- 5-69	7- 7-70	29.40
MERCED RIVER B3				
OSTRANDER LAKE	NATIONAL PARK SERVICE	8- 8-69	7-15-70	46.20
SNOW FLATS	DEPT OF WATER RESOURCES	8- 5-69	7- 7-70	53.60
SAN JOAQUIN RIVER B6				
CHIQUITO CREEK	DEPT OF WATER RESOURCES	8- 4-69	7- 6-70	42.75
CLOVER MEADOW	DEPT OF WATER RESOURCES	8- 4-69	7- 6-70	40.90
KAISER MEADOW	SO CALIF EDISON COMPANY	6-26-69	10- 6-70	39.09
MAMMOTH POOL	SO CALIF EDISON COMPANY	6-29-69	10- 7-70	29.95
ROSE MARIE MEADOW	SO CALIF EDISON COMPANY	7-31-69	10- 7-70	33.30
VERMILION VALLEY	SO CALIF EDISON COMPANY	6-26-69	10- 5-70	22.32
TULARE LAKE BASIN C0				
KINGS RIVER C1				
BARTON FLAT	U S CORPS OF ENGINEERS	7-22-69	9-14-70	21.05
DUSY BENCH	U S CORPS OF ENGINEERS	9-11-69	9-12-70	23.16
MORAIN CREEK	U S CORPS OF ENGINEERS	9-10-69	9-16-70	24.15
RATTLESNAKE CREEK	U S CORPS OF ENGINEERS	9-11-69	9-15-70	35.85
STATE LAKES	U S CORPS OF ENGINEERS	9-11-69	9-15-70	27.20
SUMMIT MEADOW	DEPT OF WATER RESOURCES	10- 6-69	7- 9-70	37.84
VIDETTE MEADOW	U S CORPS OF ENGINEERS	9-10-69	9-16-70	29.65
WEST WOODCHUCK	FRESNO STATE COLLEGE	10- 8-69	6-26-70	31.81
KAWEAH RIVER C2				
ATWELL	U S CORPS OF ENGINEERS	7-10-69	8-10-70	37.90
BEARTRAP MEADOW	U S CORPS OF ENGINEERS	7-23-69	9-17-70	35.70
HOCKETT MEADOW	U S CORPS OF ENGINEERS	9-12-69	8-11-70	34.70
MINERAL KING	U S CORPS OF ENGINEERS	9-12-69		RE
PEAR LAKE	U S CORPS OF ENGINEERS	9-12-69		RE
GIANT FOREST	U S CORPS OF ENGINEERS	7-23-69	9-16-70	35.55
TULE RIVER C3				
EAGLE CREEK	U S CORPS OF ENGINEERS	9-12-69	8-11-70	28.10
HOSSACK (RADIO)	U S CORPS OF ENGINEERS	7- 9-69	8-27-70	37.25
MOUNTAIN HOME 2	U S CORPS OF ENGINEERS	7- 7-69	8-27-70	34.00
ROGERS CAMP	U S CORPS OF ENGINEERS	7- 9-69	8-27-70	27.00

RE Record ends.

TABLE A-3 (Cont.)

STORAGE GAGE PRECIPITATION DATA

SAN JOAQUIN VALLEY

Station	Agency	1969-70 Season		
		Measurement Period		Precipitation in Inches
KERN RIVER C5				
CHAGOOPA	U S CORPS OF ENGINEERS	9-12-69	8-11-70	24.35
CRABTREE MEADOW	U S CORPS OF ENGINEERS	9-20-69	9-11-70	19.98
DOUBLEBUNK MEADOW	U S CORPS OF ENGINEERS	7- 8-69	8-26-70	32.05
MONACHE MEADOW	U S CORPS OF ENGINEERS	9-29-69	9-16-70	12.95
PORTUGUESE MEADOW	U S CORPS OF ENGINEERS	7- 8-69	8-24-70	37.45
QUAKING ASPEN	U S CORPS OF ENGINEERS	7- 8-69	8-26-70	35.65
ROUND MEADOW	U S CORPS OF ENGINEERS	9-16-69	8-25-70	28.60
TUNNEL R S	DEPT OF WATER RESOURCES	9-26-69	9-16-70	17.76
WET MEADOW	U S CORPS OF ENGINEERS	9-12-69	8-12-70	30.20
TULARE LAKE BASIN WESTSIDE C7				
OILFIELD JOAQUIN RDG	DEPT OF WATER RESOURCES	7-31-69	5- 8-70	10.64

TABLE A-4
EVAPORATION DATA

The definition of terms and the abbreviations used in this table follows:

Evap	The total amount of water evaporated from the pan for the month.
Wind	The amount of movement of air over the pan in miles for the month.
Av Max	Arithmetical average of daily maximum water temperature for the month.
Av Min	Arithmetical average of daily minimum water temperature for the month.
-	No record.
M	One or more days of record missing; if average value is entered, less than ten days of record is missing.
RB	Record begins.
RE	Record ends.

Wind and water temperature data are not available at all evaporation stations.

TABLE A-4
EVAPORATION DATA

EVAPORATION IN INCHES

WIND MOVEMENT IN MILES

WATER TEMPERATURE IN DEGREES FAHRENHEIT

STATION NAME	TOTAL JULY 1 TO JUNE 30	1969										1970										TOTAL OCT 1 TO SEPT 30
		JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	
		1969	1970	1969	1970	1969	1970	1969	1970	1969	1970	1969	1970	1969	1970	1969	1970	1969	1970	1969	1970	
JOAQUIN P. B. B.																						
PAN JOAQUIN FL. B.																						
ANTHONY FERRY 2 SE	EVAP	12.46	11.55	11.52	4.41	1.55E	.91E	1.30E	3.03	1.43	1.27	6.07E	9.00E	12.50E	11.14	8.36	68.77E					
	WIND	1.43	1.40	1.16	4.78	2.15E	.365	4.70	1.81	.360	5.38	7.04E	7.50E	9.43	9.14	5.39	64.57E					
LOS BANOS FIELD STA	EVAP	16.05	14.44E	3.63	5.86	2.16E	1.22E	1.32E	2.29E	6.01E	8.86	13.44E	14.45E	17.51	15.14	11.63	100.00E					
	WIND	2.98E	3.16	2.32E	2.15	.95E	1.493	1.704E	1.10E	2.284E	3.612	4.168E	4.310E	3.804	3.475	2.143	316.33E					
MADERA I D	EVAP	12.03E	14.56	12.61	10.74	5.60	2.28	1.42	1.64E	2.23E	5.32E	8.04	13.34E	14.20E	16.09	15.08	10.49	95.78E				
	WIND	2.912E	1.807	1.240	1.443	1.373	.685	1.130	1.441E	1.259E	1.740E	2.440	2.717E	2.849E	2.308	2.291	1.465	218.96E				
WESTLEY	EVAP	16.76	11.23	10.84	7.54	5.00	2.24	2.16	1.60	2.76	7.21	9.24	11.47	11.41	12.25	9.55	9.07	83.98				
TUOLUMNE RIVER B4																						
DON PEDRO RES	EVAP	78.34E	14.07	12.68	10.05	4.15	2.00	1.33E	1.63	2.10	4.34	5.91	9.92	10.18	14.11	12.93	10.32	78.92E				
FRESNO-CHOWCHILLA R B6																						
CATHEYS VAL BULL RUN BR	EVAP	71.47	12.76	11.72	8.82	4.55	1.77	1.16	1.09	2.14	3.89	5.31	9.00	9.26	13.86	12.94	10.20	75.17				
	WIND	1.055	1.048	.395	.785	.871	.594	.943	1.012	.701	1.065	1.084	.841	.997	1.147	.863	1.0734					
PAN JOAQUIN FIVER B7																						
FRANT GOVERNMENT CAMP	EVAP	77.51	12.47	12.00	8.81	4.90	2.53	1.56	1.52	2.16	4.10	5.81	10.01	11.14	14.08	12.78	8.14	79.73				
	WIND	1.031E	1.053	.809	.836	.850E	.330	.573	1.619	.809	.710	1.475	1.643	1.584	1.501	1.296	1.492E					
	AV MAX		91.7	90.7	85.9	69.4	61.0	52.0	53.6	60.5	67.0	70.6	84.1	89.9	94.6	92.2	85.0					
	AV MIN		64.3	63.7	60.7	49.6	43.7	38.8	41.3	42.8	44.7	43.6	54.1	62.4	67.1	64.8	57.8					
SAN JOAQUIN WESTSIDE BR																						
LITTLE PANOCH DET DAM	EVAP	111.02	17.80	17.03	11.20	6.84	3.01	2.28	1.74	3.01	6.81	10.13	13.20	15.97	19.56	16.89	13.79	115.23				
	WIND	3.2857	3.199	2.619	1.986	2.280	1.675	2.139	2.310	2.944	2.892	4.135	4.051	3.561	3.224	2.658	2.376	3.3311				
	AV MAX		90.4	89.0	85.9	70.1	62.4	54.7	54.9	61.8	68.3	71.7	82.4	86.1	90.7	88.9	83.2					
	AV MIN		60.3	58.6	59.8	47.5	41.9	40.3	42.5	42.8	41.9	43.1	52.0	57.3	60.9	58.6	53.3					
LOS BANOS DET RES	EVAP	110.38	17.22	16.66	11.70	6.50	2.83	1.92	1.77	2.71	7.02	10.36	15.43	16.06	19.78	16.36	14.20	115.34				
	WIND	5.7470	4.953	4.190	3.619	4.078	3.199	3.619	3.649	3.169	4.885	7.645	7.488	5.976	5.386	4.699	3.428	6.0221				
	AV MAX		88.8	90.1	86.3	70.7	62.1	55.1	55.4	62.1	69.1	72.0	82.4	86.8	92.1	89.8	83.0					
	AV MIN		61.5	60.6	60.5	50.0	45.1	41.9	43.9	44.3	45.9	44.9	53.9	59.3	62.3	59.9	55.3					
SAN LOUIS DAM	EVAP	116.99	20.16	19.07	12.98	7.41	2.85	1.87	1.91	2.61	6.98	10.28	15.04	15.82	21.19	18.25	14.57	118.78				
	WIND	4.844E	6.954	4.922	4.769	3.515	1.687	1.913	1.377	1.500E	2.465	5.080	6.601	7.085	6.141	5.643	3.924	4.6951E				
	AV MAX		92.7	92.9	88.4	61.8	65.0	57.3	57.4	65.0	72.4	75.2	82.9	86.4	91.1	89.9	84.5					
	AV MIN		61.1	62.0	61.2	51.9	46.6	43.6	45.6	45.5	47.8	46.0	53.3	56.5	60.6	59.5	57.1					
TULARE LAKE BASIN																						
TULARE LAKE VAL FL CV																						
CORCORAN EL RICO I	EVAP	42.43E	13.07	12.28E	8.91E	5.25	2.21E	1.33E	1.07	1.65	5.01	7.91	11.93	12.29E	14.46	13.57	9.76	86.48E				
	WIND	1.300	1.300	1.890E	1.355E	1.265	.875E	1.025E	1.390	1.400	2.260	2.900	2.500	2.000E	1.970	2.120	1.790	2.150E				
DELANO GOVT CAMP	EVAP	79.77	13.60	11.52	8.36	4.50	2.53	1.75	1.60	2.29	4.76	6.38	10.18	12.68	13.67	10.98	8.38	79.30				
METTERMAN CITY	EVAP	84.24	14.58	13.43	10.04	6.36	3.06	2.21	2.01	2.39	5.31	7.73	12.76	13.44	15.59	13.49	10.52	95.79				
	WIND	1.1109	.860	.736	.682	.964	.511	.751	1.013	.903	1.112	1.150E	1.285	1.224	1.092	1.049	.885					
LD RIVER 3 W	EVAP	85.78	15.91	13.73	10.64	6.22	2.25	1.34	2.06	2.41	4.40	6.78	9.80	10.24	10.14	10.85	7.98	74.35				
	WIND	1.4313	1.621	1.445	1.354	1.457	1.096	1.032	1.350	1.011	.784	1.289	1.053	.611	.294	.704	.714	1.140E				
SANTIAGA RANCH	EVAP																					
	WIND																					
S COTTON FIELD STA	EVAP	90.16	11.44	11.41	9.36	5.69	2.95	1.78	2.21	2.53	5.91	9.43	12.04	13.14	13.25	10.34	9.16	88.68				
	WIND	1.7932	1.242	1.008	1.057	1.499	1.010	1.319	1.032	1.634	2.143	.713	2.260	2.215	1.330	.721	.871	1.7547				
MINOS RIVER C1																						
PINE FLAT DAM	EVAP	69.44	11.02	10.75	7.46	4.22	2.30	1.21	1.04	1.94	3.52	5.47	9.40	10.23	10.98	11.38	8.81	70.40				
	WIND	-	-	-	-	-	.633	.700	.691	.779	.806	.853	.822	.632	.632	.739	.788	.8901				
	AV MAX		94.1	97.5	91.8	72.9	62.1	53.5	54.9	62.6	70.4	76.2	89.1	92.8	97.4	95.0	86.3					
	AV MIN		66.4	65.0	61.8	49.2	42.4	38.0	40.7	42.4	45.5	45.6	55.7	63.2	66.0	65.4	58.3					
KAMAH RIVER C2																						
TERMINUS DAM	EVAP	11.41	14.16	14.81	10.98	6.36	3.81	2.04	1.83	2.61	4.47	6.53	11.09	12.70	14.61	13.87	11.43	91.35				
	WIND	2.215E	1.956	2.152	1.890	2.024	2.077	1.987	1.984	1.674	1.749	1.378	1.628	1.658	1.696	1.519	1.754	2.1143				
	AV MAX		95.7	94.0	89.6	70.0	63.2	54.4	56.0	63.0	70.5	75.7	88.0	92.2	94.4	93.5	86.7					
	AV MIN		67.4	66.7	63.9	50.8	44.5	40.5	43.7	43.9	46.0	46.9	55.2	62.0	66.9	65.1	56.7					
WHITAKER FOREST	EVAP	-	7.22	8.30	5.58	-	-	-	-	-	-	-	-	-	5.89	6.27	8.48	6.37	-			
	WIND	-	.312	.233	.301	-	-	-	-	-	-	-	-	-	.656	.670	.534	.683	-			
TULE RIVER C3																						
SUCCESS DAM	EVAP	94.99	13.16	13.06	9.64	5.70	3.04	1.74	1.67	2.34	4.65	6.94	10.92	12.13	13.43	12.95	10.16	85.67				
	WIND	1.7430	1.197	1.299	1.093	1.108	1.630	1.159	1.190	1.169	1.341	1.433	1.380	1.450	1.391	1.489	1.302	1.5941				
	AV MAX		94.9	93.9	88.4	72.6	63.1	53.4	55.8	62.8	68.6	74.5	85.8	90.6	93.0	90.4	84.3					
	AV MIN		68.0	67.8	62.7	50.9	44.6	39.1	42.3	43.2	46.5	47.1	55.6	61.7	66.9	65.0	57.3					
KEEN RIVER C5																						
ISABELLA DAM	EVAP	12.13	12.02	12.77	8.71	5.57	3.16	1.91	1.91	3.06	4.45	7.98	10.82	11.17	13.40	13.45	10.34	85.82				
	WIND	2.261E	1.910	1.897	1.432	1.375	1.402	1.465	1.756	1.698	2.093	2.494	2.590	2.303	1.926	2.116	2.031	2.3649				
	AV MAX		84.7	82.9	78.4	62.8	54.8	46.4	46.4	54.1	58.0	75.2	73.8	75.4	91.1	89.9	74.5					
	AV MIN		59.1	58.1	53.0	41.3	37.7	33.2	34.8	36.1	36.4	37.2	45.1	52.3	56.7	55.4	46.7					

TABLE A-5
CLIMATOLOGICAL STATION CHANGES
AND
RELOCATIONS

Changes in Station Names

<u>New Name</u>	<u>Former Name</u>
Hanford Refinery	Hanford Well #21

Equipment Changes and Relocations

Corcoran El Rico 1	Equipment moved 5.9 mi. SW	1- 8-70
Hanford Well #21	Equipment moved 0.65 mi. SE	10-27-69

APPENDIX B
SURFACE WATER MEASUREMENT

INTRODUCTION

This appendix presents surface water data for the 1970 water year, which is from October 1, 1969 to September 30, 1970. The data presented consist of daily mean discharge, daily mean gage height, gaging station location, diversion quantities, imported water to report area, exported water from report area, summary tables of monthly and annual unimpaired runoff from major streams, additions and discontinuations, corrections and revisions to previously published reports, and discharge measurements at miscellaneous sites.

Each station in this appendix has been assigned an identification number. The first two digits denote the drainage basin as shown below. The remaining digits further identify each station.

HYDROGRAPHIC AREA B	HYDROGRAPHIC AREA C
SAN JOAQUIN RIVER BASIN	TULARE LAKE DRAINAGE BASIN
B0 - San Joaquin Valley Floor	C0 - Tulare Lake Valley Floor
B3 - Stanislaus River	C1 - Kings River
B4 - Tuolumne River	C2 - Kaweah River
B5 - Merced River	C3 - Tule River
B6 - Fresno-Chowchilla Rivers	C4 - Greenhorn Mountains
B7 - San Joaquin River	C5 - Kern River
B8 - San Joaquin Valley on West Side	C6 - Tehachapi Mountains
	C7 - Tulare Lake Basin on West Side

In addition to data collected and published by the Department of Water Resources in this appendix, the U. S. Geological Survey collects and publishes data on many additional gaging stations for the same report area. This work is done under a federal-state cooperative contract, or through cooperative arrangements with other local or government agencies. The data published in the following reports together with this report present a comprehensive analysis of the water resources for the area:

1. Water Resources Data for California
Part 1, Surface Water Records
Volume 2: Northern Great Basin and Central Valley
United States Department of the Interior
Geological Survey
Prepared in cooperation with the California Department of Water Resources
and with other agencies.
2. Kings River Watermaster Report
Kings River Water Association
3. Water Supply
Fresno Field Division, U. S. Bureau of Reclamation
4. Bulletin 120, Water Conditions in California, Fall Issue
Department of Water Resources
5. Bulletin 157, Index of Stream Gaging Stations In and Adjacent to California, 1970
Department of Water Resources
This index contains the period of record--with number of years missing--and more information for 800+ stations in the San Joaquin Valley area. The index also identifies the agency from which a particular record may be obtained.

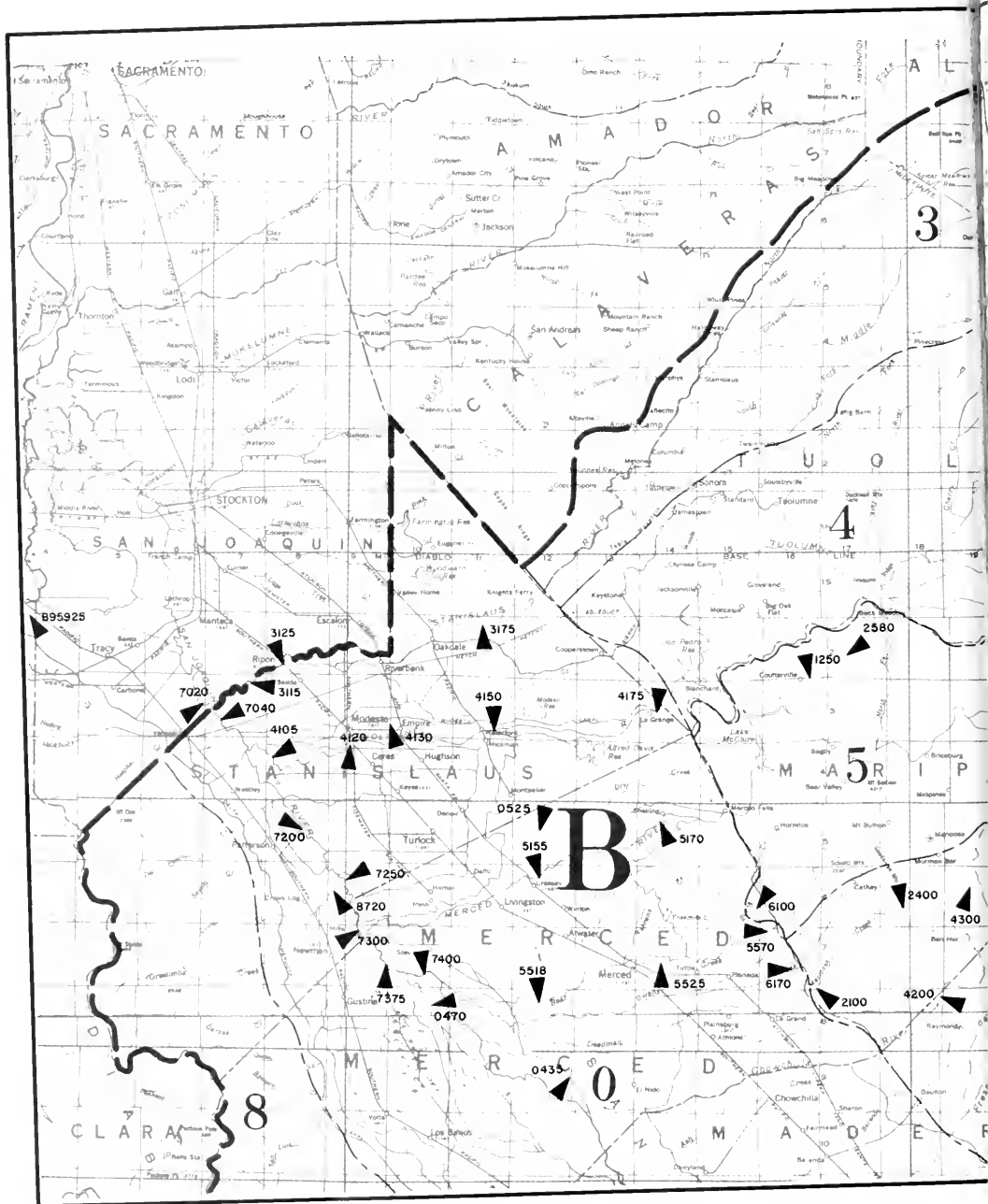
ALPHABETICAL INDEX TO TABLES

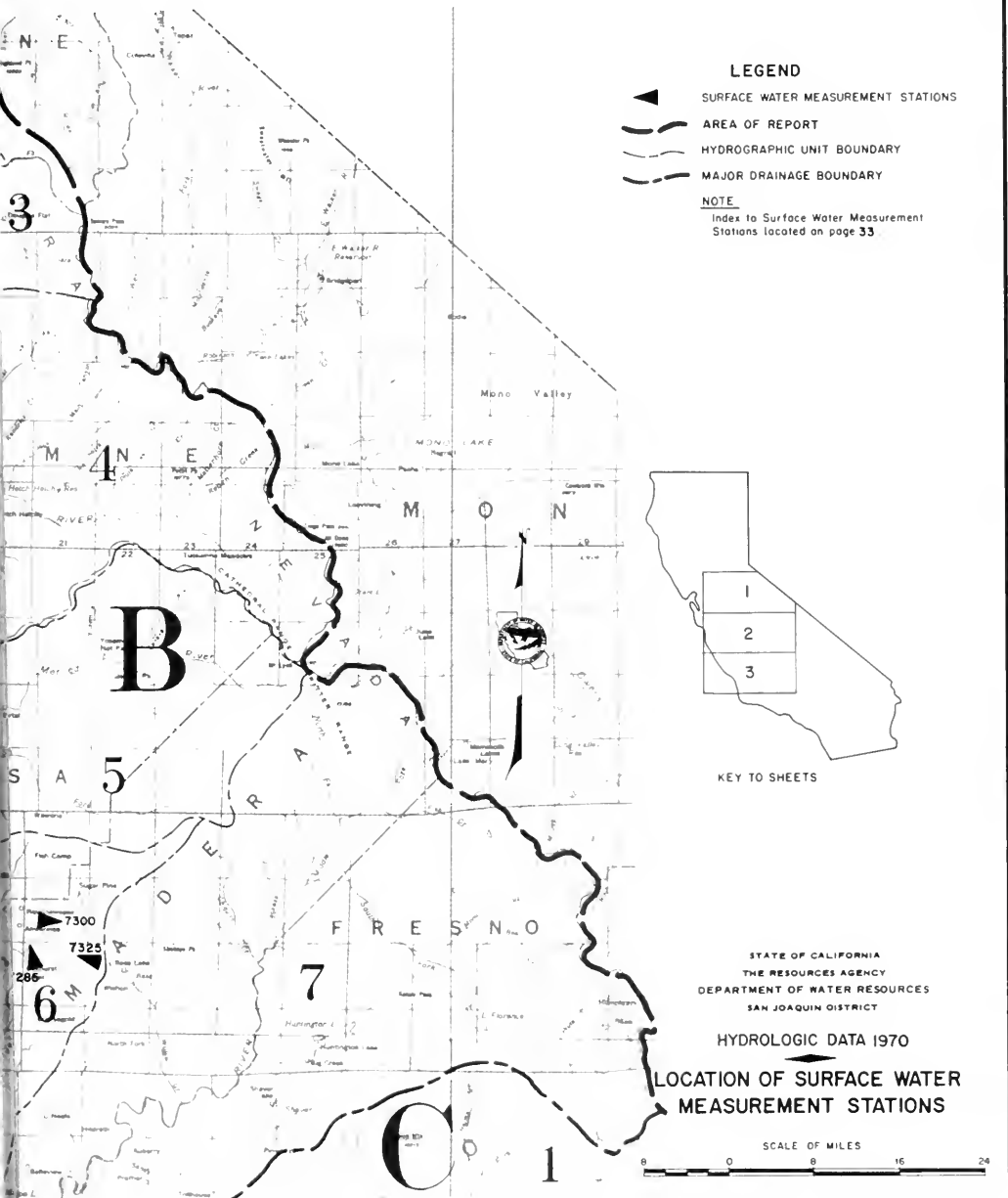
DAILY MEAN DISCHARGE, DAILY MEAN GAGE HEIGHT

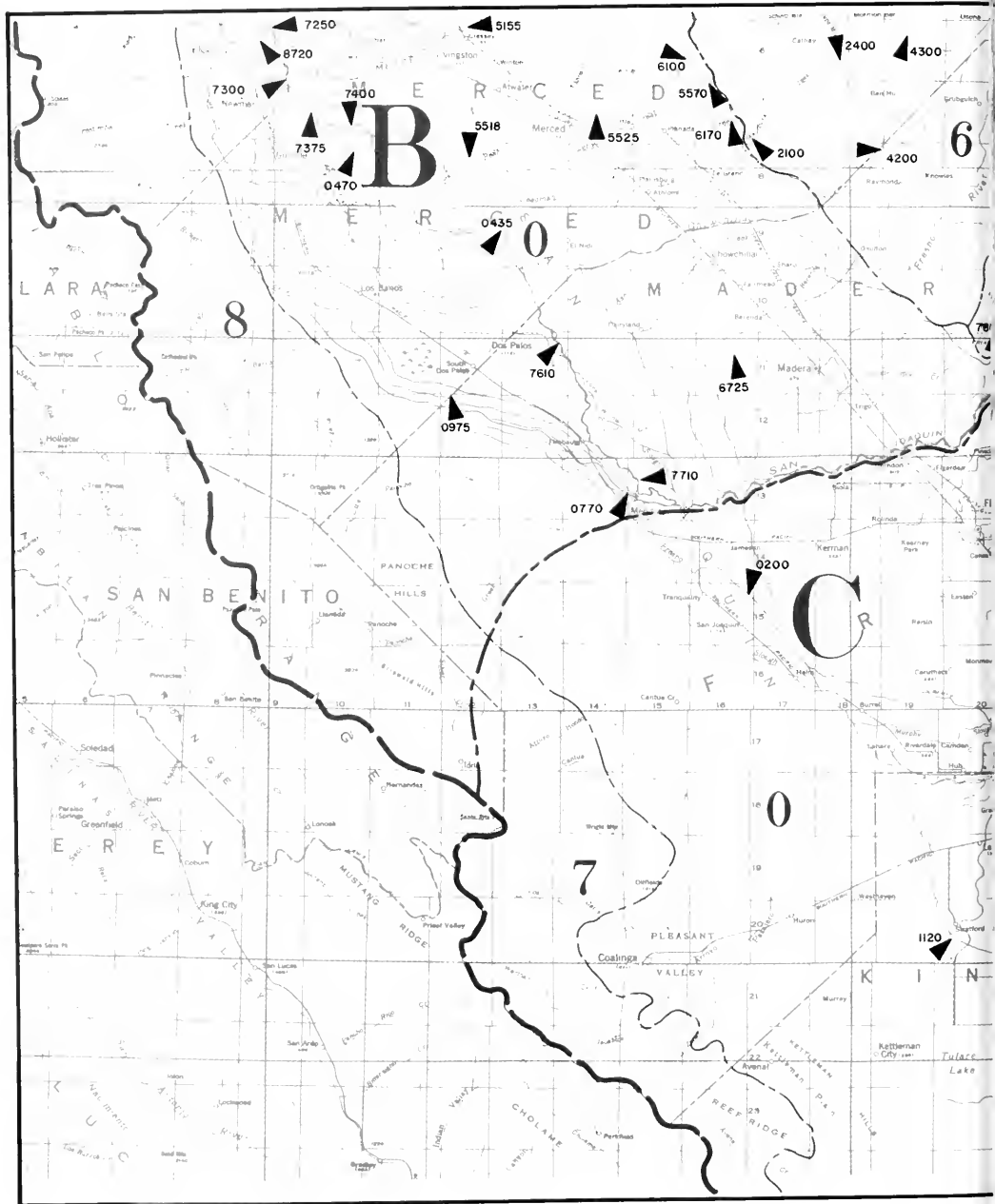
	Page	
	Daily Mean Discharge	Daily Mean Gage Height
Bean Creek near Coulterville	68	
Bear Creek below Bear Reservoir	61	
near Catheys Valley	43	
at McKee Road near Merced	62	
at Merced Irrigation District West Boundary	63	
Big Creek Diversion near Fish Camp	43	
Buena Vista Creek near Taft	97	
Burns Creek below Burns Reservoir	64	
at Hornitos	43	
Campbell-Moreland Ditch above Porterville	89	
Chowchilla River near Raymond	56	
West Fork near Mariposa	55	
Cross Creek below Lakeland Canal #2	85	
Delta-Mendota Canal near Tracy	47	
to Mendota Pool	48	
Dry Creek near Modesto	78	125
Eastside Bypass near El Nido	57	
Fresno River Eight Miles West of Madera	54	
Lewis Fork near Oakhurst	51	
Friant-Kern Canal Delivery to Porter Slough	86	
to Tule River	87	
Hubbs-Miner Ditch at Porterville	94	
James Bypass near San Joaquin	46	
Kern River near Bakersfield	96	
Kings River, South Fork, below Empire Weir #2	84	
Mariposa Creek near Catheys Valley	58	
below Mariposa Reservoir	59	
Maxwell Creek at Coulterville	69	
Merced River at Cressey	71	119
below Snelling	70	118
North Fork near Coulterville	43	
Miami Creek at Highway 49 near Ahwahnee	53	
near Oakhurst	52	
Mustang Creek near Ballico	72	
Orestimba Creek near Crows Landing	73	
Owens Creek below Owens Reservoir	60	
Panoche Drain near Dos Palos	66	
Poplar Ditch near Porterville	93	
Porter Slough at Porterville	90	
Porter Slough Ditch at Porterville	91	
Salt Slough near Stevinson	67	
San Joaquin River at Crows Landing Bridge	74	121
near Dos Palos	50	
at Fremont Ford Bridge	45	117
below Friant	80	128
at Maze Road Bridge	49	
near Mendota	75	120
near Newman	43	122
at Patterson Bridge	65	116
above Sand Slough	83	132
near Stevinson	82	131
near Vernalis	81	129
Stanislaus River at Koeltz Ranch		130
at Orange Blossom Bridge		114
at Ripon		
Tulare Lake	88	
Tule River below Porterville	77	124
Tuolumne River at Hickman Bridge	76	123
at La Grange Bridge		126
at Modesto	79	127
at Tuolumne City	92	
Vandalia Ditch near Porterville	95	
Woods-Central Ditch near Porterville		
DIVERSIONS		
Deliveries from California Aqueduct		112
Deliveries from Central Valley Project Canals		110
Dry Creek		106
East Side Canals and Irrigation Districts		109
Merced River		107
San Joaquin River		
Vernalis to Fremont Ford Bridge		100
Fremont Ford Bridge to Gravelly Ford		102
Gravelly Ford to Friant Dam		103
Stanislaus River		104
Tule River		108
Tuolumne River		105
GAGING STATION ADDITIONS AND DISCONTINUATIONS		
		43
IMPORTS AND EXPORTS		
		113
CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS		
		133
STREAMFLOW MEASUREMENTS AT MISCELLANEOUS LOCATIONS		
		98
UNIMPAIRED RUNOFF		
Annual		40
Monthly		42

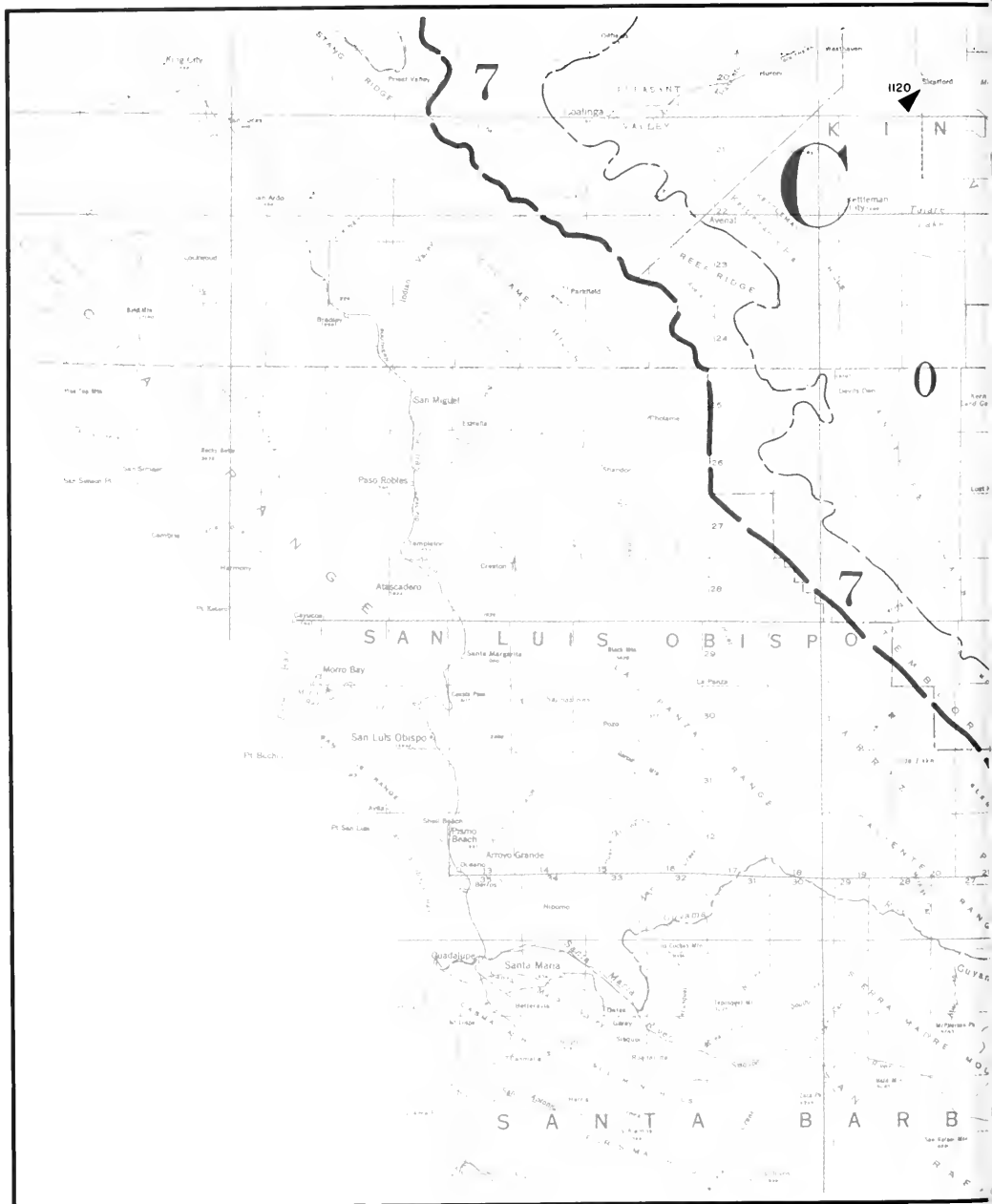
Page

33









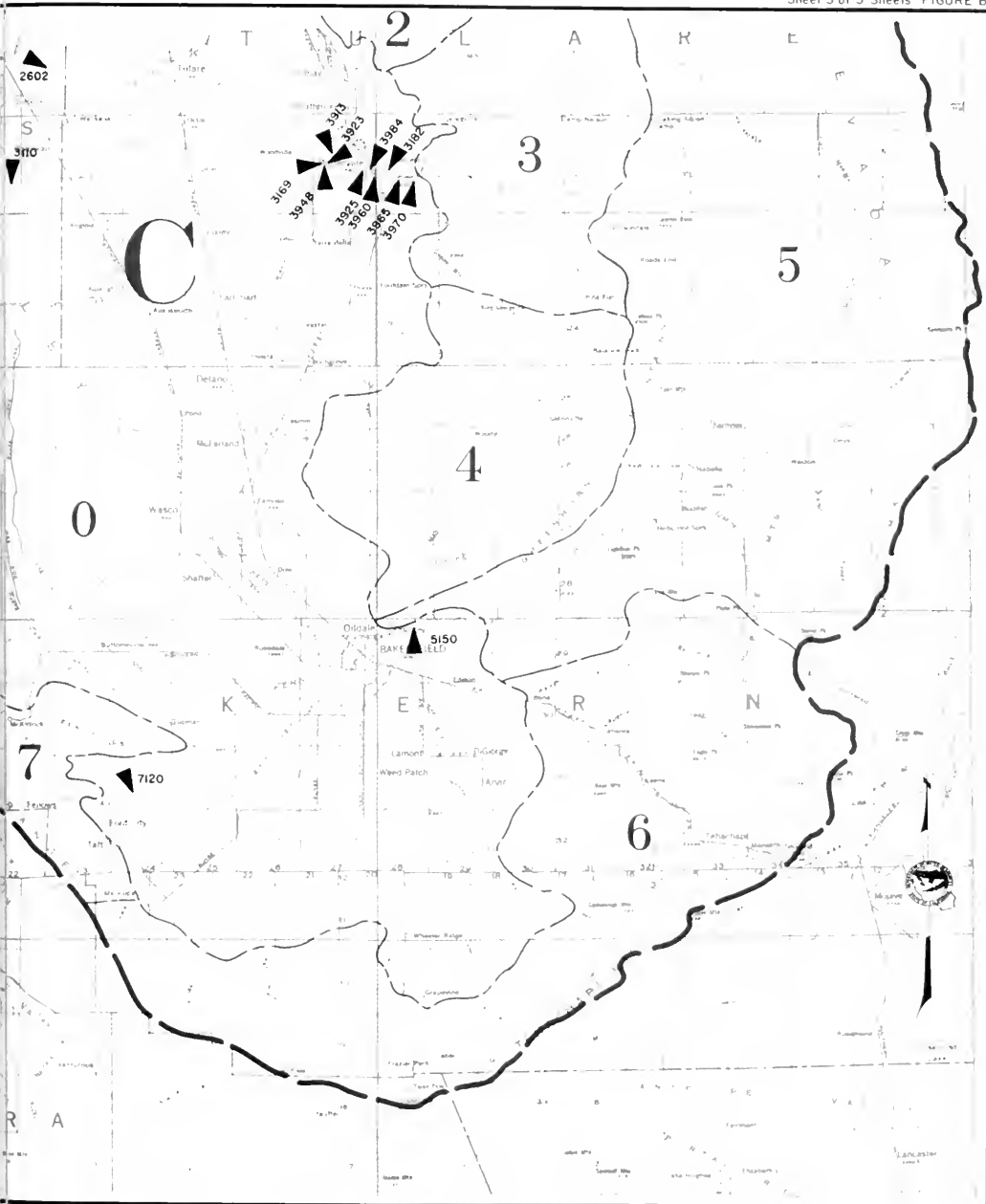


TABLE B-1

ANNUAL UNIMPAIRED RUNOFF

Unimpaired runoff is defined as the flow that occurs naturally at a point in a stream if there were: (1) no upstream controls such as dams or reservoirs; (2) no artificial diversions or accretions; and, (3) no change in ground water storage resulting from development. The computed natural or unimpaired runoff values are considered to be the flows that would occur if no impairments were upstream from the measurement points.

The average unimpaired runoff is in thousands of acre-feet and was computed from the 50-year period October 1920 through September 1970.

TABLE B-1
ANNUAL UNIMPAIRED RUNOFF
In percent of average

Water Year	Stanislaus River Inflow to Melones	Tuolumne River Inflow to Don Pedro	Merced River Inflow to Exchequer	San Joaquin River Inflow to Millerton	San Joaquin River near Vernalis (b)	Kings River Inflow to Pine Flat	Kaweah River Inflow to Terminus	Tule River Inflow to Success	Kern River Inflow to Teabolla
Average Annual Runoff (a)	1085	1789	920	1659	5452	1568	404	133	629
1930-31	29	34	29	29	30	30	28	19	29
1931-32	125	118	121	123	121	133	129	104	111
1932-33	56	63	56	67	62	75	70	60	68
1933-34	39	45	39	42	42	42	32	15	37
1934-35	112	118	127	116	118	103	89	67	72
1935-36	122	121	125	112	119	120	121	128	119
1936-37	102	112	132	133	120	149	168	230	176
1937-38	188	192	226	222	206	209	216	267	205
1938-39	48	55	52	56	53	62	61	62	72
1939-40	129	124	119	113	121	114	127	158	111
1940-41	123	140	158	160	146	162	159	177	198
1941-42	137	133	140	136	136	128	122	102	119
1942-43	144	133	140	124	134	129	166	274	159
1943-44	62	73	74	76	72	75	78	77	92
1944-45	118	117	119	129	121	132	136	153	128
1945-46	109	105	102	104	105	103	88	71	103
1946-47	58	62	61	68	63	71	66	39	68
1947-48	83	79	75	73	77	64	65	48	53
1948-49	69	70	69	70	70	61	54	37	47
1949-50	99	87	78	79	85	82	75	47	69
1950-51	156	139	133	112	133	102	104	116	84
1951-52	177	167	170	171	171	182	204	241	221
1952-53	89	86	68	74	80	74	76	74	86
1953-54	82	81	73	79	79	83	76	67	80
1954-55	63	64	58	70	64	71	68	49	56
1955-56	174	177	182	178	178	162	180	157	139
1956-57	82	80	70	80	79	79	73	49	69
1957-58	155	148	153	159	153	157	159	168	167
1958-59	54	56	50	57	55	52	38	24	43
1959-60	55	59	52	50	54	45	45	36	44
1960-61	37	41	34	39	39	36	29	15	28
1961-62	92	99	101	116	103	118	98	65	104
1962-63	117	115	107	117	115	119	124	89	117
1963-64	60	64	49	56	58	54	57	45	50
1964-65	164	154	145	137	149	123	121	102	109
1965-66	65	73	73	78	73	77	61	35	64
1966-67	178	174	187	195	182	207	254	281	251
1967-68	59	57	46	52	54	51	54	48	73
1968-69	203	207	240	244	223	271	314	375	351
1969-70 (c)	122	108	95	87	102	82	88	91	94

(a) Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1920 through September 1970.

(b) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from valley floor.

(c) Percent figures are preliminary values and subject to revision.

TABLE B-2
MONTHLY UNIMPAIRED RUNOFF
In percent of average (a)

Month		Stanislaus River Inflow to Melones	Tuolumne River Inflow to Don Pedro	Merced River Inflow to Exchequer	San Joaquin River Inflow to Millerton	San Joaquin River near Vernalis (b)	Kings River Inflow to Fine Flat	Kaweah River Inflow to Terminus	Tule River Inflow to Success	Kern River Inflow to Isabella
October	Percent	204	293	269	199	239	209	224	511	233
	Average	8	14	6	16	45	16	4	1	14
November	Percent	85	80	97	105	90	106	93	121	187
	Average	24	45	20	30	119	28	8	4	17
December	Percent	145	120	73	75	105	65	61	69	105
	Average	52	92	46	62	253	54	21	11	28
January	Percent	530	364	285	230	355	194	254	244	215
	Average	67	108	56	69	300	59	22	14	28
February	Percent	137	97	81	88	75	75	74	69	115
	Average	85	140	80	95	400	80	30	19	32
March	Percent	118	111	120	107	113	95	111	98	111
	Average	112	168	90	128	500	106	38	24	49
April	Percent	69	57	60	62	61	61	64	49	69
	Average	196	282	148	236	863	214	64	24	86
May	Percent	88	90	90	87	89	92	92	58	73
	Average	290	446	242	430	1408	429	105	22	145
June	Percent	96	98	75	75	86	68	68	58	74
	Average	179	352	168	369	1069	370	76	10	125
July	Percent	56	85	64	69	71	64	56	66	77
	Average	52	113	48	158	370	150	26	3	63
August	Percent	83	102	58	79	82	59	41	100	84
	Average	13	20	10	46	89	44	7	1	26
September	Percent	85	108	78	60	77	62	75	60	85
	Average	6	8	4	18	36	17	3	0	15
1969-70 Water Year	Percent	122	108	95	87	102	82	88	91	94
	Average	1085	1789	920	1659	5452	1568	404	133	629

(a) Percent figures are preliminary values and subject to revision. Average unimpaired runoff in thousands of acre-feet computed from the 50-year period October 1920 through September 1970.

(b) Figures were computed from summations of unimpaired runoff at foothill stations on major tributaries only and do not include runoff from minor tributaries and from the valley floor.

TABLE B-3

GAGING STATION
ADDITIONS AND DISCONTINUATIONS

ADDITIONAL STATIONS

Date

B07200	San Joaquin River at Patterson Bridge	10-1-69
B67285	Miami Creek at Hwy 49 near Ahwahnee	10-1-69

DISCONTINUED STATIONS

B07575	San Joaquin River above Sand Slough	9-30-69
B52600	North Fork Merced River near Coulterville	9-30-69
B55400	Bear Creek near Catheys Valley	9-30-69
B56400	Burns Creek at Hornitos	9-30-69
B67920	Big Creek Diversion near Fish Camp	9-30-69

TABLE B-4

DAILY MEAN DISCHARGE

The streamflow table is arranged, for each stream or stream system, in downstream order. Stations on a tributary entering between two main stem stations are listed between those stations, and in downstream order on that tributary. A stream gaging station is named after the stream and the nearest post office (Merced River at Cressey) or well-known landmark (San Joaquin River at Fremont Ford Bridge).

The discharges estimated for periods of no record or invalid record, are shown with the letter "E". Also, qualified by the letter "E" are discharges obtained from extended ratings which exceed 140 percent of the highest measured flow-rate on which the rating curve was based.

The discharge figures in this table have been rounded off as follows:

1. Daily flows - second-feet

0.0	- 9.9	nearest	Tenth
10	- 999	"	Unit
1,000	- 9,999	"	Ten
10,000	- 99,999	"	Hundred
100,000	- 999,999	"	Thousand

2. Monthly means - second-feet

0.0	- 99.9	nearest	Tenth
100	- 9,999	"	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred

3. Monthly and yearly totals - acre-feet

0.0	- 9,999	nearest	Unit
10,000	- 99,999	"	Ten
100,000	- 999,999	"	Hundred
1,000,000	- 9,999,999	"	Thousand

Those streamflow data received from cooperating agencies are published as received and do not necessarily adhere to the above criteria.

TABLE B-4

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B07885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	73	41	47	42	492	116	83	62	90	83	88	80	1
2	73	39	46	42	492	155	83	60	90	82	88	80	2
3	63	39	46	44	935	76	68	58	87	83	90	82	3
4	49	38	46	44	1760	89	54	60	85	83	90	97	4
5	49	36	47	44	1950 *	138	54	68	85	82	90	88	5
6	49	39	49	44	1940	95	54	92	85	80	88	82	6
7	49	39	47	46	1940	85	55	92	85	80	88	80	7
8	47	39	49	46	1940	82	55	90	82	80	88	80	8
9	49	39	49	47	1780	76	55	90	78	88	90	80	9
10	49	38	49	47	1000	73	55	90	78	95	88	80	10
11	49	39	50	49	233	68	55	92	78	95	88	78	11
12	49	39	49	49	50	66	57	92	80	102	95	80	12
13	47	39	49	47	49	65	58	92	78	108	104	78	13
14	47	39	50	60	50	63	58	90	78	112	106	78	14
15	49	39	52	55	49	62	60	90	78	119	106	78	15
16	49	39	52	187	49	66	58	90	73	121	104	78	16
17	49	39	44	85	57	60	60	90	68	121	99	71	17
18	50	39	46	70	54	58	60	90	70	121	95	63	18
19	50	41	52	58	50	57	60	90	70	121	95	63	19
20	44	41	50	57	50	55	60	90	75	119	95	63	20
21	39	41	52	54	49	55	60	92	70	119	95	63	21
22	38	41	49	65	47	55	60	92	68	117	94	63	22
23	38	41	47	336	42	54	60	92	68	108	94	63	23
24	39	41	46	801	42	54	60	92	70	108	88	63	24
25	41	41 *	52	966	42	54	60	92	76	108	83	65	25
26	39	41	49	798 *	42 *	54	60	90	85	106	83	65	26
27	39	42	46	502	42	88 *	62	90	82	102	83 *	66	27
28	39	44	46	497	47	168	62	90 *	82	100	82	65	28
29	39 *	46	47 *	492 *		200	62 *	92	82	100	82	60	29
30	41	46	44	492		175	62	90	83 *	100	82	55 *	30
31	39		42	492		126		90		95 *	82		31
MEAN	47.2	40.2	48.0	215	545	87	60.3	86.1	78.6	101	91.1	72.9	MEAN
MAX.	73	46	52	966	1950	200	83	92	90	121	106	97	MAX.
MIN.	38	36	42	42	42	54	54	58	68	80	82	55	MIN.
AC. FT.	2900	2390	2950	13210	30290	5330	3590	5300	4680	6220	5600	4340	AC. FT.

- ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
120	1960	5.34	2	4	1100	36	1.63	11	5		86810

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 59 04	119 43 24	SW 7 11S 21E	77,200	23.8	12-11-37	OCT 07-DATE		1938		294.00	USGS

Station located 2 miles downstream from Friant Dam and 1.5 miles downstream from Cottonwood Creek. Flow regulated by Millerton Lake beginning in 1944, and by other upstream reservoirs. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	CO0200	JAMES BYPASS NEAR SAN JOAQUIN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	242	1052	0							1
2			0	198	623	0							2
3			0	170	344	236							3
4			0	172	212	228							4
5			0	129	102	208							5
6			0	42	52	308							6
7			0	80	22	250							7
8			0	68	5	105							8
9			0	0	0	25							9
10			0	0	0	0							10
11			0	0	0	0							11
12	N	N	0	0	0	0	N	N	N	N	N	N	12
13	O	O	0	0	0	0	O	O	O	O	O	O	13
14			0	65	0	0							14
15			0	190	0	0							15
16	F	F	0	627	0	0	F	F	F	F	F	F	16
17	L	L	0	985	0	0	L	L	L	L	L	L	17
18	O	O	0	1775	0	0	O	O	O	O	O	O	18
19	W	W	0	1851	0	0	W	W	W	W	W	W	19
20			0	1806	0	0							20
21			0	1785	0	0							21
22			0	1752	0	0							22
23			0	1740	0	0							23
24			0	1734	0	0							24
25			0	1731	0	0							25
26			0	1728	0	0							26
27			0	1704	0	0							27
28			0	1659	0	0							28
29			187	1647	0	0							29
30			268	1585	0	0							30
31			235	1418	0	0							31
MEAN			22.3	867	86.1	43.9							MEAN
MAX.			268	1851	1052	308							MAX.
MIN.			0	0	0	0							MIN.
AC. FT.			1370	53320	4780	2700							AC. FT.

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
— E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
85.9	1986	7.02	1	18	2100	0	10	1	0000		62170

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1:4 SEC T & R MO B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT.	DATE						
36 39 06	120 10 45	SW 1 15S 16E				MAY 27-DATE					

Station located 0.1 mile downstream from Placer Avenue, 3.1 miles north of City of San Joaquin. James Bypass carries diverted flow from Kings River to San Joaquin River. Flow regulated by upstream reservoir, weir, and diversions. Altitude of gage is 165 feet (from U. S. Geological Survey topographic map). This station was established in 1929 and maintained until 1947 by Kings River Water Association. The U. S. Geological Survey maintained it and published the data until 1953. The U. S. Bureau of Reclamation has maintained the station from that time and records for the period are available from their office in Sacramento.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1970	B95925	DELTA-MENDOTA CANAL NEAR TRACY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2533	323		0	1237	1878	3262	3657	4148	4382	4360	2153	1
2	2596	324		0	908	1308	3676	2237	4108	4382	4338	2276	2
3	2728	323		0	781	1382	3659	1588	4188	4495	4229	2285	3
4	3168	323		0	900	1540	4131	1591	4167	4476	4079	2086	4
5	4142	321		0	773	942	4142	1600	4443	4484	3508	1873	5
6	3105	722		0	774	1138	4104	1615	4592	4490	3504	1865	6
7	2878	576		0	772	908	4105	1740	4381	4510	3872	1865	7
8	2460	397		0	770	493	4112	2065	4470	4502	4245	1999	8
9	2050	397		0	772	659	4112	4013	4455	4543	3662	1915	9
10	2047	433		0	1254	1198	4081	4013	4461	4513	3843	1900	10
11	1865	361		0	1257	935	4068	4020	4140	4562	3730	1968	11
12	1900	360	N	0	1264	858	4075	3929	3771	4558	3696	2105	12
13	1906	505	O	0	1253	862	3897	3952	3777	4563	3926	2101	13
14	2030	578		0	1669	866	3897	3935	3777	4580	3965	2090	14
15	2031	650		130	1678	944	3823	4002	3802	4597	3895	2092	15
16	1663	0	F	1685	1420	1063	3968	4032	4065	4576	3928	2021	16
17	1589	72	L	1692	1889	1280	3918	3988	4468	4592	3849	2058	17
18	1406	215	O	1623	2028	1429	3897	3946	4446	4571	3599	2049	18
19	1332	286		73	2087	1654	3871	3920	4255	4581	3513	2059	19
20	1331	286	W	109	2079	1645	3861	3962	3970	4576	3459	2048	20
21	1113	359		110	2174	1960	3803	4273	4499	4570	3348	2170	21
22	975	360		147	2120	2093	3719	4299	4292	4374	3357	2430	22
23	434	323		370	2147	2143	3018	4295	4020	4266	3361	2453	23
24	433	288		1027	1971	2753	3178	4309	4092	4262	3357	3044	24
25	433	650		1023	1930	3200	3154	4243	4218	4189	3096	3158	25
26	416a	866		773	2020	3174	3133b	4249	4185	4216	2912	3031	26
27	434	685		518	1641	3179	3552	4218	4508	4193	2991	3031	27
28	433	0		788	1889	3190	3370	4168	4475	4216	3019	2816	28
29	433	0		785		3189	874	4138	4325	4367	2473	2820	29
30	324	0		905		3193	2663	4213	4391	4317	2475	2692	30
31	325			1017		3198		4205		4359	2331		31
MEAN	1629	366		412	1481	1757	3645	3562	4230	4447	3236	2262	MEAN
MAX.	4142	866		1692	2174	3200	4142	4309	4592	4597	4360	3158	MAX.
MIN.	324	0		0	770	493	874	1588	3771	4189	2331	1865	MIN.
AC FT.	100225	21784		25339	82229	108048	216619	219005	251681	273445	216819	135780	AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *
 a - 25-HOUR DAY
 b - 23-HOUR DAY

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
2256		0	1652974

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF DATUM
			CFS	GAGE HT	DATE			FROM	TO	
37 47 45	121 35 05	SW 31 18 4E				JUN 51-DATE		1951		0.00 USGS
Station located at Tracy Pumping Plant at intake to canal, 6 miles southeast of Byron, 10 miles northwest of Tracy. Discharge computed from records of operation of pumps. Water is diverted from Sacramento-San Joaquin Delta by way of Old River and a dredged channel to the Tracy Pumping Plant where it is lifted about 200 feet into canal. Records furnished by U. S. Bureau of Reclamation.										

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B00770	DELTA-MENDOTA CANAL TO MENDOTA POOL

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1733	751	150		0	641	1888	1473	2201	2399	2872	1709	1
2	1752	752	125		0	471	2140	2140	2304	2872	2872	1582	2
3	1733	656	65		0	469	2046	1973	2444	2304	2899	1685	3
4	1734	813	0		0	367	1870	1377	2449	2340	2824	1577	4
5	1734	667	0		0	115	1870	1683	2419	2464	2588	1440	5
6	1724	698	0		0	320	1622	1682	2490	2782	2152	1440	6
7	1562	500	0		0	175	1754	1730	2490	3090	2570	1470	7
8	1352	460	0		0	100	1762	1682	2453	2482	2755	1549	8
9	1304	460	0		0	100	1856	1920	2405	2729	2786	1506	9
10	1297	478	0		0	439	1974	1920	2201	2681	2777	1503	10
11	1062	478	0		0	440	2092	1902	2033	2683	2478	1517	11
12	1066	429	0		0	476	2122	1877	1946	2683	2563	1645	12
13	1180	461	0	N	0	552	2071	1872	1847	2654	2492	1645	13
14	1279	431	0	O	306	590	1825	1839	1756	2851	2714	1534	14
15	1186	431	0		350	622	1410	1794	1927	2856	2715	1471	15
16	1020	430	0	F	392	810	1406	1794	2271	2810	2715	1470	16
17	914	307	0	L	605	834	1409	2448	2448	2775	2686	1493	17
18	808	416	0	O	626	998	1409	1881	2541	2775	2642	1491	18
19	807	474	0	W	700	1000	1410	1994	2494	2776	2577	1491	19
20	750	524	0		749	1000	1750	2062	2409	2759	2352	1491	20
21	575	593	0		900	1260	1527	2125	2409	2808	2418	1554	21
22	506	594	0		900	1440	1831	2170	2427	2550	2454	1685	22
23	550	594	0		864	1764	1760	2171	2420	2671	2454	1898	23
24	562	500	0		764	2203	1685	2171	2466	2643	2517	1940	24
25	571a	575	0		680	2263	1616b	2158	2629	2643	2475	1910	25
26	629	575	0		705	2456	1616	2062	2687	2675	2443	1980	26
27	645	650	0		755	2600	1228	1965	2759	2665	2084	1949	27
28	651	729	0		929	2600	1108	1977	2759	2747	2187	1636	28
29	664	350	0			2600	1191	1986	2687	2867	2053	1672	29
30	766	300	0			2600	1384	2111	2502	2704	1730	1604	30
31	683		0			2571		2112		2872	1614		31
MEAN	1058	536	11.0		365	1125	1694	1907	2376	2679	2499	1625	MEAN
MAX.	1752	813	150		929	2600	2140	2171	2759	3090	2899	1980	MAX.
MIN.	506	300	0		0	100	1108	1377	1756	2304	1614	1440	MIN.
AC. FT.	65103	31886	674		20281	69176	100690	117237	141412	164711	153637	96670	AC. FT.

E - ESTIMATED
 N# - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND W
 a - 25-HOUR DAY
 b - 23-HOUR DAY

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
1328	GAGE HT. MO. DAY TIME	0 GAGE HT. MO. DAY TIME	961477

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC T & R M.O.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT.	DATE						
36 47 11	120 23 05	NW 19 13S 15E				JUL 51-DATE		FROM TO			
Station located approximately 2 miles north of Mendota, where Delta-Mendota Canal crosses the Outside Canal, which is 0.8 mile northwest of Bass Avenue crossing (check No. 21). Flow measured by three Sparling meters located at siphon outlet. Records furnished by U. S. Bureau of Reclamation.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B07710	SAN JOAQUIN RIVER NEAR MENDOTA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	238	187	237	170	1148	218	260	236	343	331	358	282	1
2	238	188	235	178	675	194	261	235	354	342	351	275	2
3	239	189	230	179	335	176	264	235	366	349	358	267	3
4	238	191	226	178	335	205	263	238	362	351	368	261	4
5	239	194	200	175	354	270	266	248	357	351	361	254	5
6	240	198	161	170	699	176	271	265	358	353	340	252	6
7	241	209	158	168	1645	211	278	267	360	370	339	250	7
8	242	216	156	164	1164	274	296	284	358	371	345	253	8
9	241	226	158	170	1086	206	287	280	345	366	348	260	9
10	240	236	220	166	1220	173	291	275	331	353	353	266	10
11	238	241	211	164	924	172	288	278	319	338	347	265	11
12	238	240	173	170	486	172	287	293	318	336	336	264	12
13	221	241	161	218	299	171	283	290	323	345	332	265	13
14	193	241	150	243	249	171	275	291	331	356	331	263	14
15	179	242	144	253	238	172	266	291	335	357	326	260	15
16	173	243	141	303	231	185	252	291	351	356	319	251	16
17	166	245	138	474	220	215	250	288	349	358	332	250	17
18	172	244	140	1124	191	214	253	288	335	370	330	255	18
19	184	244	137	1958	204	226	256	302	316	371	326	262	19
20	193	244	134	1710	218	244	257	318	340	366	322	261	20
21	202	245	131	1352	211	243	263	321	352	362	319	262	21
22	202	258	133	1841	212	242	264	313	353	369	317	263	22
23	196	265	136	2067	219	245	264	295	352	365	317	260	23
24	198	265	139	1917	229	259	267	296	351	358	316	258	24
25	204	263	140	1795	226	271	269	306	348	354	308	258	25
26	218	262	138	1791	223	286	270	319	343	352	302	258	26
27	214	262	137	1850	221	290	266	323	328	351	301	258	27
28	184	254	138	2065	222	292	248	330	322	352	283	257	28
29	182	239	136	2030	221	295	240	334	327	354	291	256	29
30	196	238	138	1845	286	266	237	339	328	362	288	245	30
31	195		157	1407	269	269		336		364	288		31
MEAN	211	234	162	913	489	227	266	290	342	356	327	260	MEAN
MAX.	242	265	237	2067	1645	295	291	339	366	371	391	282	MAX.
MIN.	166	187	131	164	191	171	237	235	316	331	283	245	MIN.
AC. FT.	12980	13900	9980	56120	27140	13930	15830	17840	20340	21880	20120	15450	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 H - E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT.	NO	DAY	TIME	DISCHARGE	MINIMUM GAGE HT.	NO	DAY	TIME	TOTAL ACRES FEET
339	2265	9.95	1	23	1400	130	2.17	12	21	0400	245510

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R. N D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 48 37	120 22 35	SW 7 13S 15E	11740a 8840	13.75	6-20-41 6- 1-52	OCT 39-DATE		1939 1954	1953	142.53 140.53	USBR USBR
Station located 2.5 miles downstream from Mendota Dam, 4 miles north of Mendota. Records furnished by U. S. Bureau of Reclamation. Drainage area is 3,943 square miles. This station is equipped with DWR radio telemeter. Flow regulated by upstream reservoirs. Summer flows consist mainly of Delta-Mendota Canal water regulated through Mendota Dam for downstream diversions.											
a Maximum discharge of record prior to the construction of Friant Dam in 1944.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B07610	SAN JOAQUIN RIVER NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0	64	12	1140	0	0	12	12	12	12	12	1
2		0	61	30	935	0	0	12	12	8	12	12	2
3		0	58	40	393	0	0	12	12	9	12	12	3
4		0	55	41	282	0	0	12	12	12	12	12	4
5		0	49	38	262	0	0	12	12	12	12	12	5
6		0	18	32	342	4	0	12	7	12	12	12	6
7		0	0	24	828	0	8	12	0	12	8	12	7
8		14	0	16	1440	0	12	12	0	12	0	12	8
9		36	0	11	908	35	12	12	5	12	4	12	9
10		46	0	13	1038	0	12	12	9	12	9	12	10
11		54	35	9	1014	0	3	0	12	12	12	12	11
12	N	58	23	4	638	0	0	9	8	12	12	7	12
13	O	59	0	7	342	0	8	12	0	3	12	0	13
14		61	0	50	202	0	12	12	0	0	12	0	14
15		63	0	76	148	0	12	12	9	9	12	9	15
16	F	63	0	94	79	0	12	12	12	12	9	12	16
17	L	65	0	198	29	0	3	12	12	12	9	12	17
18	O	65	0	479	0	0	8	12	12	12	12	12	18
19	W	64	2	1098	0	0	12	12	12	12	12	12	19
20		65	1	1732	0	0	12	12	4	12	12	0	20
21		65	0	1272	0	0	12	12	9	12	12	3	21
22		70	0	1396	0	0	12	12	12	12	12	12	22
23		92	0	1748	0	0	12	12	12	12	12	12	23
24		102	0	2323	0	0	12	12	12	12	12	12	24
25		102	0	2223	0	0	12	12	12	7	12	7	25
26		102	0	2160	0	0	12	12	12	9	12	0	26
27		102	0	1800	0	0	12	12	8	12	10	0	27
28		102	0	1748	0	0	12	12	5	12	9	9	28
29		78	0	1948	0	0	12	12	12	12	12	4	29
30		68	0	1860	0	0	12	12	12	10	12	0	30
31			0	1608		0		12		5	12		31
MEAN		53.2	11.8	777	358	1.3	8.1	11.2	8.8	10.5	10.8	8.2	MEAN
MAX.		102	64	2323	1440	35	12	12	12	12	12	12	MAX.
MIN.		0	0	4	0	0	0	0	0	0	0	0	MIN.
AC. FT.		3170	730	47790	19670	77	480	690	520	640	660	490	AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
104	2439	0	75117
	GAGE HT. 7.41	GAGE HT. 10	
	MO. 1	DAY 1	
	TIME 24	TIME 0000	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM TO	ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT.	DATE						
36 59 38	120 30 02	N412 11S 13E	8920a 8200	10.52b	6-24-41 6-5-52	OCT 40-DATE		1945 1944	116.5	USED	
Station located 800 feet downstream from the head of Temple Slough, 6.5 miles east of Dos Palos. Records furnished by U. S. Bureau of Reclamation. Drainage area is approximately 4,672 square miles. Flow regulated by upstream reservoirs. Water diverted above station to Central California Irrigation District.											
a Maximum discharge of record prior to the construction of Friant Dam in 1944.											
b Gage height at site and datum then in use.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B67325	LEWIS FORK FRESNO RIVER NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	13	20	18	27	66	210	64	92	71	33	11 E	3.2	1
2	13 #	19	19	20	62	152	65	92	69	32	11 E	3.3	2
3	14 E	19	18	18	60	105	66	92	66	34	10 E	3.3	3
4	14 E	19	20	15	58	100	66	91	63	34	9.2E	3.1	4
5	14 E	19	21	12	56	94	67	91	60	31	9.2E	2.9	5
6	14 E	44	22	14	54	89	69	92	57	29	5.3	3.5	6
7	14 E	34	21	19	54	85	68	93	54	28	6.2	3.5	7
8	14 E	27	19	26	53	82	65	94	57	27	6.4	3.3	8
9	14 E	25	15	41	52	76	77	94	86	27	9.0	3.1	9
10	15 E	24	16	118	52	76	78	93	67	27	8.2	3.1	10
11	16 E	23	15	57	54	69	78	92	62	25	7.3	3.2	11
12	16 E	23	16	50	64	68	78	89	59	24	5.3	3.3	12
13	16 E	23	16	48	86	71	81	90	62	23	4.9	3.6	13
14	16 E	23	16	144	91	75	81	90	63	22	4.8	3.8	14
15	36 #	24	16	101	73	77	80	91	60	19	4.7	4.2	15
16	102	26	17	648	65	74	79	91	55	17	5.6	4.5	16
17	60	25	14	306	103	75	77	91	52	17	6.0	4.1	17
18	39	22	11	143	70	72	76	90	50	13	6.1	3.6	18
19	32	20	15	110	62	67	77	89	47	13	6.6	3.3	19
20	30	19	47	105	57	65	77	88	44	13	5.9	3.5	20
21	29	19	60	150	54	66	78	87	43	12	4.9	3.6	21
22	27	19	69	119	53	68	80	87	41	13	5.0	3.8	22
23	25	18	36	98	52	69	79	85	38	13	5.0	3.5	23
24	24	18	31	145	51	70	77	83	36	13	4.8	3.4	24
25	23	18	111	103	49	75	77	82	35	13	3.5	3.4	25
26	23	18	71	90	49	76	81	82	36	13	2.7	3.2	26
27	23	18	45	123	49	74	82	82	48	9.0	2.8	3.4	27
28	23	18	35	97	83	72	79	80	40	7.6	2.4	3.0	28
29	22	18	35	82	70	70	77	79	39	13 #	2.6	3.2	29
30	21	16	30	75	69	69	77	77	38	13 E	2.9	4.2	30
31	20		28	69	66	66	74	74		12 E	3.0		31
MEAN	24.6E	22.0	29.8	102	61.9	82.5	75.4	87.8	53.3	20.0	5.9	3.5	MEAN
MAX.	102	44	111	648	103	210	83	94	86	34	11	4.5	MAX.
MIN.	13 E	18	11	12	49	65	64	74	35	7.6	2.4	2.9	MIN
AC. FT.	1511E	1309	1831	6294	3435	5072	4487	5401	3170	1229	362	206	AC FT.

E - ESTIMATED
NR - NO RECORD
- DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM	GAGE HT	MO	DAY	TIME	DISCHARGE	MINIMUM	GAGE HT	MO	DAY	TIME	TOTAL
47.4	1290	4.09	1	16	1045		1.3	0.85	8	28	1530		34310

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 20 44	119 38 20	SE 2 7S 21E	2000	5.00	2-1-63	SEP 61-DATE			1961	0.00	LOCAL
Station located 1.6 miles north of Oakhurst on Highway 41, 500 feet downstream from White Oaks Guest Home. Station located on left bank above concrete weir. Drainage area is 32.5 square miles. Altitude of gage is approximately 2,300 feet (revised), from topographic map. Flow recorded at this station includes water diverted from South Fork Merced River drainage via Big Creek Diversion.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B67300	MIAMI CREEK NEAR OAKHURST

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.7	3.9	3.8	5.5	13	54	11	8.8	4.7	3.4	1.8	1.0	1
2	2.7*	3.9	4.3	5.2	12	39 *	11	8.3	4.5	3.3*	1.7	1.0	2
3	2.8	3.8	5.1*	5.3	12	27	10 *	7.9	4.4	3.2	1.7	1.0	3
4	2.8	3.7*	4.3	6.6	11	23	10	7.6	4.3	3.2	1.6	0.9*	4
5	2.8	3.9	4.2	6.6	10 *	21	9.8	7.2*	4.3	3.0	1.6*	0.9	5
6	2.8	12	4.1	6.5	10	21	9.7	7.1	4.2	2.8	1.6	1.1	6
7	2.8	9.1	4.1	4.8*	9.6	21	9.4	7.2	4.2	2.7	1.6	1.2	7
8	2.8	7.0	4.5	5.2	9.2	20	9.3	7.2	4.7*	2.8	1.5	1.1	8
9	2.9	6.1	4.6	9.6	9.0	18	9.2	7.1	10	2.8	1.5	1.1	9
10	3.0	5.5	4.5	4.2	9.2	18	9.1	6.9	7.5	2.9	1.4	1.0	10
11	3.2	5.2	4.5	15	9.2	17	8.9	6.7	6.8	2.7	1.3	0.9	11
12	3.1	5.0	4.5	13	11	16	8.6	6.6	6.4	2.6	1.3	0.9	12
13	3.1	4.9	4.4	13	16	17	9.1	6.5	6.7	2.5	1.2	0.9	13
14	3.1	4.8	4.2	42	18	17	9.9	6.6	6.6	2.4	1.3	1.0	14
15	6.5	5.0	4.1	28	15	17	9.6	6.4	6.6	2.3	1.2	1.1	15
16	25	5.5	3.8	257	13	17	10	6.1	6.1	2.3	1.2	1.0	16
17	11	5.8	3.6	93	23	16	9.7	5.9	5.8	2.3	1.2	0.9	17
18	7.0	5.7	3.7	37	16	16	11	5.7	5.6	2.2	1.2	0.9	18
19	5.9	4.4	6.4	26 *	14	14	10	5.6	5.4	2.1	1.2	0.9	19
20	5.4	4.3	9.1	24	12	14	7.0	5.6	5.0	2.1	1.2	0.9	20
21	4.9	4.3	11	40	12	13	8.3	5.6	4.7	2.0	1.1	0.9	21
22	4.6	4.3	11	29	12	13	9.8	5.5	4.0	2.0	1.1	0.9	22
23	4.2	4.1	7.4*	21	11	13	10	5.3	3.5	2.0	1.1	0.9	23
24	4.2	4.1	6.7	38	11	13	9.8	5.1	3.4	2.0	1.1	0.9	24
25	4.1	4.0	22	23	11	13	9.1	5.1	3.4	1.9	1.0	0.8	25
26	4.1	4.0	13	19	11	13	9.2	5.1	3.5	1.8	1.1	0.8	26
27	4.2	3.9	8.9	27	11	12	9.8	5.1	5.1	1.8	1.1	0.8	27
28	4.2	3.9	7.7	21	19	11	9.3	5.1	4.3	1.7	1.0	0.8	28
29	4.3	3.9	6.9	17	12	12	9.1	5.0	3.9	1.7	1.1	0.7	29
30	4.1	3.9	6.4	15	11	11	9.4	4.9	3.7	1.7	1.0	0.8	30
31	3.9		5.9	14	11	11		4.9		1.8	1.0		31
MEAN	4.8	5.0	6.4	29.3	12.5	18.0	9.5	6.3	5.1	2.4	1.3	0.9	MEAN
MAX.	25	12	22	257	23	54	11	8.8	10	3.4	1.8	1.2	MAX.
MIN.	2.7	3.7	3.6	4.8	9.0	11	7.0	4.9	3.4	1.7	1.0	0.7	MIN.
AC FT.	294	297	394	1804	695	1107	567	384	304	147	79	56	AC FT.

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR

OBSERVATION OF NO FLOW

- E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MINIMUM DISCHARGE	TOTAL ACRE FEET
8.5	478	0.7	6128

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE				FROM	TO	
37 23 38	119 39 10	SE22 6S 21E	804	9.08	2-1-63	DEC 59-DATE			1959		LOCAL

Station located 150 feet downstream from bridge, 4.5 miles north of Oakhurst. Tributary to Fresno River. Stage-discharge relationship at times affected by ice. Drainage area is 10.6 square miles. Recorder installed December 15, 1959. Altitude of gage is approximately 3,500 feet (from topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1970	867285	MIAMI CREEK AT HIGHWAY 49 NEAR AHWAHNEE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.9E	4.9	3.7	9.1	44	117	17	13	3.7	2.9	0.8	0.0	1
2	0.9E	4.9	3.9	8.6	42	101	17	12	2.0	3.2*	0.5	0.0	2
3	1.0E	4.5	5.9	9.7	40	61	16	11	2.1	3.4	0.1	0.1	3
4	1.0E	4.9	5.9*	9.7	39	55	16	11	3.2	3.2	0.0	0.1*	4
5	1.0E	5.2*	4.2	8.6	36	59	16	11	2.3	2.5	0.0*	0.0	5
6	1.0E	12	3.9	8.1	34	47	15	11	3.4	2.5	0.0	0.0	6
7	1.0E	14	3.9	6.8*	30	45	15	11	3.4	2.0	0.2	0.0	7
8	1.0E	9.7	4.2	6.8	28	42	15	12	3.9	1.4	0.6	0.0	8
9	1.1E	8.1	5.6	9.7	26	39	15	12	13	1.5	0.5	0.0	9
10	1.2E	8.1	5.6	4.9	24	39	15	12	9.1*	0.8	0.1	0.2	10
11	1.4E	6.8	5.2	24	23	35	15	11	5.9	0.5	0.1	0.1	11
12	1.3E	6.3	5.6	18	25	32	15	11	5.2	0.6	0.0	0.0	12
13	1.3E	5.9	5.6	20	34	31	16	10	5.9	1.0	0.0	0.0	13
14	1.3E	5.6	5.6	64	55	31	18	10	5.9	0.9	0.6	0.0	14
15	4.6#	5.9	5.6	63	34	30	17	8.1	5.2	1.1*	0.2	0.0	15
16	23	6.8	5.2	478 E	27	29	17	9.7	4.5	0.8	0.1	0.1	16
17	19	5.9	5.2*	232 E	68	28	16	9.1	3.7	0.9	0.0	0.0	17
18	12	8.1	5.2	89	39	26	16	8.1	3.7	1.1	0.0	0.0*	18
19	12	5.6*	6.3	40	32	24	18	9.7*	2.5	0.7	0.0	0.0	19
20	8.6	5.2	14	51	28	23	13	6.8	3.7	0.4	0.1*	0.0	20
21	6.3	4.9	13	76	25	22	13	6.8	2.9	0.3	0.4	0.0	21
22	6.3	5.2	19	71	24	21	15	6.3	3.2*	0.3	0.0	0.0	22
23	5.2*	4.5	13	55	22	21	16	5.9	3.2	0.4	0.0	0.0	23
24	4.9	4.5	12	78	22	21	16	5.9	2.9	0.9	0.0	0.1	24
25	5.2	4.5	27	61	21	20	15	5.9	2.3	0.8	0.0	0.0	25
26	4.9	4.5	25	53	20	20	14	5.9	3.4	0.9	0.0	0.0	26
27	5.2	3.9	15	71	20	20	16	4.9	3.2	0.5	0.0	0.0	27
28	5.2	3.9	13	64	34	17	15	5.2	3.4	0.5	0.0	0.0	28
29	5.2	2.9	14	53	18	15	15	3.7	3.7	0.2	0.0	0.0*	29
30	5.2	3.9	11	46	18	14	14	4.5	3.2	0.1	0.0	0.0	30
31	5.2		10	46	18			3.9		0.4	0.0		31
MEAN	4.9	6.0	9.1	60.7	32.0	35.8	15.6	8.7	4.1	1.2	0.1	0.0	MEAN
MAX	23	14	27	478 E	68	117	18	13	13	3.4	0.8	0.2	MAX
MIN.	0.9E	2.9	3.7	6.8	20	17	13	3.7	2.0	0.1	0.0	0.0	MIN
AC FT	304	359	560	3731	1777	2202	926	532	245	73	9	1	AC FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
— E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM	GAGE HT	NO	DAY	TIME	DISCHARGE	MINIMUM	GAGE HT	NO	DAY	TIME	TOTAL
14.8	913E	8.24	1	16	1100		0.0		8	4	2200		10720

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
37 20 50	119 43 00	SW 6 7S 21E	913E	8.24	1-16-70	OCT 69-DATE			1969		0.00 LOCAL

Station located 4.0 miles west of Oakhurst on State Highway 49. Recorder installed on the downstream side of bridge. Tributary to Fresno River. Drainage area 31.6 square miles. Recorder installed 10-15-69. Altitude of gage is approximately 2030 feet (from topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B06725	FRESNO RIVER EIGHT MILES WEST OF MADERA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1			0	26	90	90							1
2			0	28	90	1200							2
3			0	27	75	568							3
4			0	27	70	370							4
5			0	27	65	790							5
6			0	28	50	495							6
7			0	30	45	341							7
8			0	24	44	300							8
9			0	9	38	279							9
10			0	7	39	250							10
11			0	77	41	215							11
12	N	N	0	145	43	175	N	N	N	N	N	N	12
13	O	O	0	95	45	159	O	O	O	O	O	O	13
14			0	95	55	148							14
15			0	325	201	147							15
16	F	F	0	700	115	140	F	F	F	F	F	F	16
17	L	L	0	2564	114	125	L	L	L	L	L	L	17
18	O	O	0	1050	267	80	O	O	O	O	O	O	18
19	W	W	0	460	170	70	W	W	W	W	W	W	19
20			0	295	114	70							20
21			0	255	71	45							21
22			0	325	62	20							22
23			0	325	40	15							23
24			0	175	20	0							24
25			0	230	5	0							25
26			0	150	0	0							26
27			0	137	90	0							27
28			30	200	100	0							28
29			30	150	0	0							29
30			30	120	0	0							30
31			30	100	0	0							31
MEAN			3.9	265	77.8	197							MEAN
MAX.			30	2564	287	1200							MAX.
MIN.			0	7	0	0							MIN.
AC. FT.			238	16276	4322	12083							AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT.	MO.	DAY	TIME	DISCHARGE	GAGE HT.	MO.	DAY	TIME	ACRE FEET
22.9	3975	7.05	1	17	0830	0		10	1	0000	32920

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATUM	
			CFS	GAGE NT.	DATE						
36 58 30	120 12 12	NE 15 11S 16E				1936-SEP 40 OCT 41-SEP 42 JUL 44-DATE		1936	0.00	LOCAL	

Station located left bank 100 feet downstream from County Road 19 bridge. Equipped with Stevens Type F recorder. Station records natural runoff as well as Central Valley Project water. Records furnished by Madera Irrigation District.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1970	B64300	WEST FORK CHOWCHILLA RIVER NEAR MARIPOSA

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.8	1.3	3.5	20	401	14	9.4	2.3	0.9			1
2	0.0	0.8	1.3	3.1	18	147	14	9.1	2.1	0.7			2
3	0.0*	0.8	1.4	2.9	16	74	14	8.8	1.9	0.6*		*	3
4	0.0	0.8	1.4*	2.9	16	134	14	8.5*	1.7	0.5			4
5	0.0	1.0*	1.4	2.8	14	127	12	7.8	1.5	0.4			5
6	0.0	5.0	1.4	2.6*	13	74	12	7.5	1.4	0.3			6
7	0.0	6.3	1.4	2.6	12	63	12	7.5	1.3	0.2			7
8	0.0	2.6	1.6	3.1	12	57	12	7.5	1.9	0.2			8
9	0.0	1.9	1.8	10	11	51	11	7.3	14	0.2			9
10	0.0	1.7	1.7	82	13	54	11	6.8	5.9	0.2		*	10
11	0.0	1.5	1.7	24	14	45	12	6.6	3.6*	0.2			11
12	0.0	1.4	1.6	20	18	41	11	6.6	2.9	0.2	N	N	12
13	0.0	1.3	1.6	17	38	38	14	6.8	2.7	0.1	O	O	13
14	0.0	1.3	1.6	125	68	35	21	6.4	2.7	0.1			14
15	0.2	1.3	1.5	57	33	33	16	5.9	2.7	0.0			15
16	8.0	1.4	1.5	946	26	32	14	5.3	2.3	0.0*	F	F	16
17	5.3*	1.3	1.5	139	94	30	13	4.8	2.0	0.0	L	L	17
18	2.1	1.3	1.5	62	38	28	12	4.4	1.8	0.0	O	O	18
19	1.6	1.3	3.7	38	30	25	11	4.2	1.6	0.0	W	W	19
20	1.3	1.3	5.7	33	26	25	11	4.6	1.4	0.0			20
21	1.1	1.3	8.8	77	22	23	12	4.6	1.2	0.0			21
22	1.0	1.3	14	47	20	22	12	4.4	1.0	0.0			22
23	0.9	1.3	5.1*	33	18	22	10	4.1	0.9	0.0			23
24	0.8	1.3	3.9	60	17	21	12	3.8	0.8	0.0			24
25	0.9	1.3	41	35	16	20	12	3.5	0.9	0.0			25
26	0.9	1.3	17	29	15	20	12	3.2	1.1	0.0			26
27	0.9	1.3	7.5	63	15	19	15	3.2	1.7	0.0			27
28	0.9	1.3	5.1	42	17	12	12	3.2	1.4	0.0			28
29	0.9	1.3	4.6	31	18	11	11	3.1	1.2	0.0		*	29
30	0.9	1.3	3.9	26	17	10	10	2.9	1.1	0.0			30
31	0.8		3.6	21	16			2.7		0.0			31
MEAN	0.9	1.6	4.9	65.8	24.8	55.8	12.6	5.6	2.3	0.2			MEAN
MAX.	8.0	6.3	41	946	94	401	21	9.4	14	0.9			MAX.
MIN.	0.0	0.8	1.3	2.6	11	16	10	2.7	0.8	0.0			MIN.
AC. FT.	57	95	300	4047	1379	3429	752	346	137	10			AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
14.6	2220	7.79	1	16	1000	0.0		10	1	0000	10550

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M. D. B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT	DATE						
37 25 14	119 52 25	SE10 6S 19E	4350E	8.93	1-25-69	NOV 57-DATE		1957	0.00	LOCAL	

Station located 15 feet downstream from Indian Peak Road Bridge, 6.7 miles southeast of Mariposa. Drainage area is 33.6 square miles. Altitude of gage is 1,680 feet (from topographic map).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B64200	CHOWCHILLA RIVER NEAR RAYMOND

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.7E	10 E	12 E	24	100 E	900 E	82	50	10 E	4.0E			1
2	1.7E	9.9E	12 E	23	94 E	1150	80 *	47	8.9E	3.6E			2
3	1.8E	9.8E	12 #	22	87 E	435 *	80	44	7.9E	3.4#		*	3
4	1.8E	9.6#	13 E	21	83 #	381	76	44 *	6.7E	3.2E	*		4
5	1.9E	9.8E	13 E	20	87	876	72	40	6.0E	3.0E			5
6	2.0E	16 E	13 E	20 *	80	447	70	38	6.0E	2.8E			6
7	2.1E	39 E	13 E	20	77	345 E	68	39	5.0E	2.7E			7
8	2.3E	36 E	13 E	21	75	268	66	39	5.0E	2.5E			8
9	2.4E	23 E	14 E	26	72	230	65	38	17 E	2.3E			9
10	2.6E	18 E	16 E	266	72	218	63	36	42 E	2.2E			10
11	2.7E	16 E	16 E	123	80	196	62	35	27 E	2.0E			11
12	2.9E	14 E	15 E	94 *	76	170	62	33	19 #	1.8E	N		12
13	3.0E	13 E	14 E	95	153	154	63	32	15 E	1.7E	O	N	13
14	3.2E	13 E	14 E	266	348	144	84	30	14 E	1.5E			14
15	4.5E	14 E	14 E	417 *	170 E	139	80	29	13 E	1.3E			15
16	9.6E	14 E	13 E	4080 *	128	134	75	27	12 E	1.1#	F	F	16
17	46 E	13 E	15	1130	313	127	68	27	11 E	0.9E	L	L	17
18	33 E	13 E	15	485	99 *	121	65	25	10 E	0.6E	O	O	18
19	20 E	12 E	18	332 E	155	113	65	24	8.9E	0.4E	W	W	19
20	17 E	12 E	29	262 #	136	107	64	23	7.4E	0.2E			20
21	14 E	12 E	35	280 E	120	104	61	22	6.5E	0.2E			21
22	12 E	12 E	56 *	330 E	110	102	65	22	5.2E	0.2E			22
23	11 E	13 E	44	200 E	103	100	62	21	4.0E	0.1E			23
24	10 E	13 E	31	240 E	100	97	59	18 E	4.4E	0.1E			24
25	10 E	13 E	37	192 E	94	96	56	16 E	4.2E	0.1E			25
26	10 E	13 E	120	155 E	89	95	54	15 E	4.2E	0.1E			26
27	11 E	13 E	54	170 E	86 E	94	58	14 E	4.0E	0.1E			27
28	11 E	13 E	37	209 E	96 E	87	59	14 E	3.8E	0.1E			28
29	10 E	13 E	30	140 E	86	86	55	13 E	5.4E	0.1E			29
30	10 E	13 E	27	120 E	87	87	52	12 E	4.6E	0.0E			30
31	11 E		26	109 E	88			11 E		0.0E			31
MEAN	9.1E	14.8E	25.5E	319 E	117	248	66.4	28.3	9.9E	1.4E			MEAN
MAX.	46 E	39 E	120	4080	348	1150	84	50	42 E	4.0E			MAX.
MIN.	1.7E	9.6E	12 E	20	72	86	52	11 E	3.8E	0.0E			MIN.
AC. FT.	560E	879E	1569E	19620E	6512	15250	3949	1741	591E	84 E			AC. FT.

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM	DISCHARGE	MINIMUM	TOTAL
70.1	8500	583.04	1 16 1400	0.0	50760

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATUM	
			CF3	GAGE HT.	DATE			FROM	TO		
37 15 36	119 56 42	SE 1 8S 18E	13760	586.44	2-24-69	NOV 59-DATE		1959		0.00	USCGS

Station located 6.0 miles northwest of Raymond on Raymond Road. Elevation of station is approximately 600 feet. U. S. Coast and Geodetic Survey datum. This station was installed in cooperation with Madera County and Chowchilla Water District as a flood warning station and is equipped with a telemark. Records for some years are insufficient for publication. Discharge measurements and partial flow records are available in DWR files. Drainage area is 201.7 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B00435	EASTSIDE BYPASS NEAR EL NIDO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0*	0.0	153	40	1600	254							1
2	1.7	0.0	142	64	1350	425							2
3	2.0	0.0	136	86	1010	1710							3
4	2.3	0.0*	131	99	610	906							4
5	2.3	0.0	123	102	540	645							5
6	2.3	0.0	111	100	516	1390							6
7	2.4	0.0	61	95	822	892							7
8	2.5	0.0	30	85	1560	529							8
9	2.6	0.0	18	77	1590	419							9
10	3.1*	0.0	12	72	1400	351							10
11	3.2	0.0	10	78	1500	218							11
12	3.0	6.1	70	73	1290	156	N						12
13	2.9	22	61	69	871	120	O	N	N	N	N	N	13
14	2.5	43	34	80	616	82		O	O	O	O	O	14
15	2.5	62	20	168	632	58							15
16	2.2	78	11	496	663	43	F	F	F	F	F	F	16
17	1.9	88	5.0*	3460	472	33	L	L	L	L	L	L	17
18	1.7	96	1.8	3120	478	18	O	O	O	O	O	O	18
19	1.4	103	14	2560	580	8.0	W	W	W	W	W	W	19
20	1.2	111	37	2590	439	1.8							20
21	1.0	120	39	2330	373	0.3							21
22	0.8	126	38	1830	324	0.0							22
23	0.5	135	34	2200	266	0.0							23
24	0.4	149	33	2450	221	0.0							24
25	0.2	165	36	2540	166	0.0							25
26	0.1	192	41	2450	114	0.0							26
27	0.1	189	46	2200	120	0.0							27
28	0.0	185	44	1960	135	0.0							28
29	0.0	179	39	2060	0.0	0.0							29
30	0.0	169	38	2060	0.0	0.0							30
31	0.0		36	1890	0.0	0.0							31
MEAN	1.5	73.9	51.8	1209	724	266							MEAN
MAX.	3.2	192	153	3460	1600	1710							MAX.
MIN.	0.0	0.0	1.8	40	114	0.0							MIN.
AC. FT	93	4400	3183	74350	40180	16380							AC. FT

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
191	5270	14.40	1	17	1230	0.0		10	1	0000	138600

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC. T & R M O B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
37 08 52	120 36 17	SE13 9S 12E	21700	17.58	2-25-69	DEC 64-DATE			1964		90.00 USGS

Station located on left bank 2.8 miles downstream from San Joaquin River and 6.4 miles west of El Nido. This station is equipped with a radio telemeter. Flows regulated above station. Station records flows from San Joaquin, Fresno, Chowchilla Rivers and Kings River water via James Bypass.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B62400	MARIPOSA CREEK NEAR CATHEYS VALLEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	1.8	2.8	7.1	38	1010	17	8.4	2.8	0.9			1
2	0.0	1.8	2.8	6.8	32	405	17 *	8.1	2.6	0.7			2
3	0.0*	1.7	2.9	6.4	29	166	16	7.8	2.5	0.7*		*	3
4	0.0	1.7	2.8*	6.4	27	392	15	7.6*	2.2	0.6			4
5	0.0	2.0*	2.8	6.2	25	410	14	7.8	2.1	0.5			5
6	0.0	16	2.8	5.7*	23	190	14	7.3	1.9	0.4			6
7	0.0	24	2.9	5.7	21	132	14	7.1	1.9	0.4			7
8	0.0	6.8	3.0	6.8	19	109	13	7.3	2.2	0.3			8
9	0.0	4.4	3.7	15	18	89	13	7.1	10	0.2			9
10	0.0	3.4	3.4	214	20	84	12	6.4	6.4	0.2		*	10
11	0.0	2.9	3.0	62	23	67	12	6.2	4.4*	0.2			11
12	0.0	2.6	3.0	60 #	22	58	12	5.9	3.5	0.1	N	N	12
13	0.0	2.6	3.2	56 E	41	51	14	5.9	3.0	0.1	O	O	13
14	0.0	2.6	3.0	396 E	110	46	18	5.7	2.9	0.1			14
15	0.0	2.6	3.0	145 #	52	43	13	5.5	2.6	0.0			15
16	10	2.6	3.0	2270	40	39	12	5.1	2.6	0.0*	F	F	16
17	8.4*	2.5	3.0	320	207	37	12	4.9	2.4	0.0	L	L	17
18	4.0	2.5	3.0	144	89	34	11	4.7	2.1	0.0	O	O	18
19	2.8	2.4	6.0	90	63	31	11	4.5	1.7	0.0	W	W	19
20	2.4	2.4	22	77 *	50	29	10	4.5	1.3	0.0			20
21	2.2	2.5	29	197	41	28	11	4.4	1.1	0.0			21
22	2.0	2.6	43 *	129	35	26	12	4.2	1.0	0.0			22
23	1.9	2.6	13	83	31	25	10	4.2	0.9	0.0			23
24	1.9	2.6	9.2	111	28	24	10	3.8	0.9	0.0			24
25	1.9	2.6	82	74	25	23	9.8	3.5	0.9	0.0			25
26	1.9	2.6	40	58	24	23	9.8	3.4	0.9	0.0			26
27	2.0	2.6	18	123	22	21	10	3.2	1.2	0.0			27
28	1.9	2.8	12	86	48	19	9.2	3.2	1.4	0.0			28
29	1.9	2.8	9.8	62	19	19	9.2	3.2	1.2	0.0		*	29
30	1.9	2.8	8.6	50	19	19	8.9	3.2	1.0	0.0			30
31	1.8		7.6	43	18	18		3.0		0.0			31
MEAN	1.6	3.9	11.4	159	43.0	118	12.3	5.4	2.4	0.2			MEAN
MAX.	10	24	82	2270	207	1010	18	8.4	10	0.9			MAX.
MIN.	0.0	1.7	2.8	5.7	18	10	8.9	3.0	0.9	0.0			MIN.
AC. FT.	97	230	703	9751	2386	7273	734	331	142	11			AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE
29.9

MAXIMUM			
DISCHARGE	GAGE HT	MO	DAY
4790	10.37	1	16
			0930

MINIMUM			
DISCHARGE	GAGE HT	MO	DAY
0.0		10	1
			0000

TOTAL ACRE FEET
21660

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R M.O.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 23 55	120 00 10	NE21 6S 18E	7460E	11.63	2-24-69	NOV 57-DATE		1957		0.00	LOCAL
Station located at county road bridge, 5.6 miles east of Catheys Valley School. Tributary to San Joaquin River via Eastside Bypass. Drainage area is 65.7 square miles. Maximum discharge of record from rating curve extended above 4,705 cfs. Altitude of gage is 1,230 feet (from topographic map).											

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1970	B62100	MARIPOSA CREEK BELOW MARIPOSA RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1		0	3.8	9.6	38	224	24	16	4.4	2.8			1
2		0	3.9	8.4	32	645	23	15	4.0	2.5			2
3		0	4.0	7.8	29	591	22	14	3.9	1.8			3
4		0	4.0	7.6	26	400	21	13	3.8	0.7			4
5		0	4.0	7.4	24	573	21	13	3.7	0			5
6		0	4.2	7.2	22	516	21	13	3.6	0			6
7		0	4.4	7.0	21	326	20	13	3.6	0			7
8		0	4.4	7.0	20	197	20	12	3.7	0			8
9		0	4.4	7.6	18	140	19	12	3.8	0			9
10		0	4.6	114	18	116	19	12	3.8	0			10
11		0.1	4.8	106	19	96	18	12	3.7	0			11
12	N	2.7	5.0	60	20	78	18	11	8.4	0	N	N	12
12	O	3.1	5.0	47	19	70	18	11	9.2	0	O	O	12
14		3.3	4.8	94	58	60	20	10	8.0	0			14
15		3.3	4.8	375	84	54	28	10	7.4	0			15
16	F	3.3	4.8	621	46	49	22	9.6	6.8	0	F	F	16
17	L	3.5	4.8	828	110	45	20	9.2	6.2	0	L	L	17
18	O	3.4	4.8	765	179	44	19	8.4	5.6	0	O	O	18
19	W	3.3	4.8	663	98	40	18	7.8	5.2	0	W	W	19
20		3.4	7.6	475	58	37	17	7.6	4.6	0			20
21		3.6	15	218	48	35	17	7.2	4.0	0			21
22		3.5	30	218	40	35	17	7.2	3.9	0			22
23		3.5	28	137	34	33	18	7.0	3.8	0			23
24		3.5	16	104	32	32	17	6.6	3.6	0			24
25		3.5	14	108	28	31	17	6.4	3.6	0			25
26		3.6	60	74	25	30	16	6.2	3.6	0			26
27		3.7	33	68	22	28	17	6.0	3.6	0			27
28		3.7	19	131	22	28	17	5.6	3.5	0			28
29		3.8	14	80	27	27	16	5.4	3.3	0			29
30		3.9	12	56	26	26	16	5.2	3.1	0			30
31			11	45	25	25		4.8		0			31
MEAN		2.2	11.1	176.0	42.4	149	19.2	9.6	4.6	0.3			MEAN
MAX		3.9	60	828	179	645	28	16	9.2	2.8			MAX
MIN		0	3.8	7.0	18	25	16	4.8	3.1	0			MIN
AC FT		130	684	10820	2360	9190	1140	589	276	15			AC FT

E — ESTIMATED
NR — NO RECORD
* — DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
— E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
34.8	847		1	17		0		10	1	0000	25204

LOCATION			MAXIMUM DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M O B & M	OF RECORD		DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CF5	GAGE HT			DATE	FROM			TO
37 16 52	120 09 45	NE 36 7S 16E	6020		12-24-55	NOV 52-DATE		1952		337.63 USCGS
Station located 1.5 miles downstream from Mariposa Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Mariposa Reservoir since 1948. Records furnished by U. S. Corps of Engineers. Drainage area is 110 square miles.										

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	806170	OWENS CREEK BELOW OWENS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1	2	3	3	9	54	5	2	0.5				1
2	1	1	3	3	9	94	5	2	0.5				2
3	1	0.5	3	3	8	75	5	2	0.5				3
4	1	1	3	2	8	42	5	2	0.5				4
5	1	2	3	2	8	96	4	2	0.5				5
6	1	3	3	2	7	84	4	2	0.5				6
7	1	11	3	2	7	38	4	2	0.5				7
8	0.5	7	3	2	7	28	3	2	0.5				8
9	0.5	3	3	3	7	25	3	2	1				9
10	0.5	2	3	8	7	24	3	2	1				10
11	0.4	2	3	7	8	21	3	2	2				11
12	0.3	2	3	6	8	18	3	1	1	N	N	N	12
13	0.1	2	3	8	10	16	3	1	1	O	O	O	13
14	0.5	2	3	27 a	27	14	5	2	1				14
15	3	2	3	36 a	13	13	5	2	1				15
16	5	2	3	91 a	11	12	4	1	1	F	F	F	16
17	2	2	3	110	53	11	3	1	0.5	L	L	L	17
18	4	2	3	102	24	11	3	1	0.5	O	O	O	18
19	3	2	3	88	18	10	3	1	0.5	W	W	W	19
20	3	2	3	35	15	10	3	1	0.5				20
21	3	2	4	28	13	9	3	1	0.5				21
22	3	3	5	24	12	9	3	1	0.4				22
23	3	3	4	18	11	9	3	1	0.1				23
24	3	3	4	16	10	9	3	1	0				24
25	3	3	4	14	9	8	3	1	0				25
26	3	3	5	12	9	8	3	0.5	0.1				26
27	3	3	4	13	8	7	3	0.5	0.5				27
28	2	3	3	14	10	6	3	0.5	0.5				28
29	3	3	3	11		6	3	0.5	0.5				29
30	3	3	3	10		6	3	0.5	0.3				30
31	3		3	10		6		0.5					31
MEAN	2.0	2.7	3.3	22.9	12.4	25.1	3.5	1.3	0.6				MEAN
MAX.	5	11	5	110	53	96	5	2	2				MAX.
MIN.	0.1	0.5	3	2	7	6	3	0.5	0.0				MIN.
AC FT.	123	162	202	1408	686	1545	210	81	36				AC FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *
 a - SEE (a) BELOW

MEAN DISCHARGE	DISCHARGE	GAUGE HT.	MO.	DAY	TIME	DISCHARGE	GAUGE HT.	MO.	DAY	TIME	TOTAL ACRS FEET
6.2	118		1	16		0		6	24		4453

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAUGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATUM	
			CFS	GAUGE HT.	DATE						
37 18 28	120 11 35	SW 23 7S 16E	590		12-24-55	FEB 50-DATE		1950	338.22	USCGS	
Station located 0.25 mile downstream from Owens Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Owens Reservoir since 1949. Records furnished by U. S. Corps of Engineers. Drainage area is 25.6 square miles.											
a Flow computed at Owens Reservoir.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B05570	BEAR CREEK BELOW BEAR RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0	1.8	4.7	9.0	28	191	14	7.4	0.7	0.6			1
2	0	1.8	4.4	8.2	23	530	13	6.6	0.5	0.5			2
3	0	1.9	4.7	7.8	21	152	13	6.6	0.4	0.5			3
4	0	2.0	4.7	7.4	18	165	11	5.8	0.4	0.4			4
5	0	2.6	5.0	7.0	17	570	11	5.4	0.4	0.3			5
6	0	6.6	5.0	7.0	15	162	10	5.0	0.4	0.3			6
7	0	17	5.0	7.0	14	100	10	5.0	0.4	0.3			7
8	0	14	5.0	7.0	14	81	9.6	5.0	0.5	0.2			8
9	0	13	5.4	8.2	13	68	9.0	5.0	0.5	0.1			9
10	0	12	5.8	136	13	58	9.0	5.0	0.5	0.1			10
11	0	11	5.8	70	14	51	9.0	5.0	0.4	0			11
12	0	11	5.8	75	14	41	8.6	5.4	0.7	0	N	N	12
13	0	9.6	5.8	90	19	35	8.6	5.8	2.6	0	O	O	13
14	0	8.6	5.8	238	64	33	11	6.2	2.6	0			14
15	0.1	7.4	5.8	350	57	30	13	6.6	2.0	0			15
16	0.1	6.2	6.2	923	35	29	12	6.2	1.8	0	F	F	16
17	0.1	5.4	6.2	1000	218	28	11	5.8	1.6	0	L	L	17
18	0.1	5.0	6.2	168	123	26	10	5.0	1.4	0	O	O	18
19	0.2	5.0	7.0	87	72	25	9.0	4.4	1.2	0	W	W	19
20	0.3	5.0	8.2	74	51	24	8.6	3.5	1.0	0			20
21	0.5	4.7	11	169	39	24	8.6	2.9	0.7	0			21
22	1.7	4.7	26	162	30	22	8.6	2.3	0.6	0			22
23	1.4	4.7	35	88	26	21	8.6	2.0	0.6	0			23
24	1.5	4.7	21	72	22	20	8.6	1.9	0.6	0			24
25	1.6	4.7	31	75	20	19	8.2	1.7	0.7	0			25
26	1.6	4.7	117	58	18	18	7.8	1.6	0.8	0			26
27	1.7	4.4	38	58	17	17	8.2	1.5	0.7	0			27
28	1.7	4.7	21	90	17	17	8.6	1.4	0.7	0			28
29	1.8	4.7	15	57	15	15	8.2	1.2	0.7	0			29
30	1.8	4.7	12	41	15	15	7.8	1.0	0.6	0			30
31	1.8		10	33	14	14		0.9		0			31
MEAN	0.6	6.5	14.5	135	36.9	83.9	9.8	4.2	0.9	0.1			MEAN
MAX.	1.8	17	117	1000	218	570	14	7.4	2.6	0.6			MAX.
MIN.	0.0	1.8	4.4	7.0	13	14	7.8	0.9	0.4	0.0			MIN.
AC. FT	36	384	892	8300	2050	5160	582	256	53	6.5			AC. FT.

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	DISCHARGE	MAXIMUM	GAGE HT	MO	DAY	TIME	MINIMUM	DISCHARGE	GAGE HT	MO	DAY	TIME	TOTAL
24.5	1330	1	16				0	10	1	0000			17719.5

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M.D.B.&M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
37 21 27	120 14 05	NE 5 7S 16E	4460		12-24-55	JAN 55-DATE		1955		320.50	USCGS

Station located approximately 0.75 mile downstream from Bear Dam. Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear Reservoir since 1950. Records furnished by U. S. Corps of Engineers. Drainage area is 72.1 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B05525	BEAR CREEK AT MCKEE ROAD NEAR MERCED

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	132	21	36	25	62	294	69	124	58	124	118	132	1
2	132	20	100	21	55	1300	101	100	52	116	116	132	2
3	124	19	100	19	50	467	69	96	52	101	122	100	3
4	114	17	100	17	46	441	55	92	79	90	104	100	4
5	84	51	100	15	43	1800	66	100	46	94	90	90	5
6	95	142	95	14	39	612	61	107	110	92	95	110	6
7	110	130	29	13	38	340	54	104	110	89	94	130	7
8	112	126	43	13	36	360	70	114	116	92	83	120	8
9	114	116	77	14	34	194	79	118	122	106	92	98	9
10	110	110	72	19	34	156	76	108	114	107	102	89	10
11	118	104	69	114	34	132	75	116	107	102	106	72	11
12	114	85	63	74	34	104	80	114	118	100	83	89	12
13	110	86	56	77	35	84	102	112	138	96	89	114	13
14	116	84	51	144	45	69	116	110	134	95	82	114	14
15	112	74	46	974	96	63	118	110	116	107	78	110	15
16	104	43	40	1850	67	59	136	110	102	107	107	96	16
17	54	35	35	2090	326	55	130	114	106	110	101	82	17
18	40	62	32	715	348	50	114	96	107	132	102	80	18
19	30	63	32	310	148	61	118	102	107	112	124	76	19
20	34	86	30	243	96	110	110	101	112	104	100	88	20
21	34	88	30	372	73	184	106	99	112	96	120	98	21
22	30	94	31	527	63	204	114	84	110	83	124	90	22
23	27	94	36	472	54	192	122	90	102	90	120	89	23
24	26	96	49	186	46	198	150	124	80	112	110	92	24
25	24	98	42	166	43	204	150	124	80	107	101	88	25
26	23	100	90	130	39	106	146	106	95	102	110	101	26
27	23	100	64	106	36	112	150	100	110	102	110	98	27
28	22	96	53	160	35	78	160	88	110	94	116	84	28
29	22	100	41	122	70	70	156	62	122	88	120	83	29
30	21	100	34	86	74	74	140	76	132	102	138	79	30
31	21		29	71	71	71		74		110	138		31
MEAN	71.9	86.5	60.8	287	73.5	269	106	103	104	102	107	97.4	MEAN
MAX.	132	142	100	2080	348	1800	160	124	138	132	138	132	MAX.
MIN.	21	19	29	13	34	50	54	74	52	83	78	72	MIN.
AC FT	4420	5150	3740	17620	4090	16530	6330	6340	6210	6280	6550	5800	AC FT

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

- E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
123	3250		1	16		13		1	7		~9000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF. DATUM
			CF5	GAGE HT	DATE				FROM	TO	
37 16 34	120 26 38	SW21 7S 14E	5,400	16.90	3-16-58	NOV 56-DATE			1956		75.00 ASSUMED
Station located 50 feet downstream from McKee Road Bridge, one mile east of Merced, Tributary to San Joaquin River via Eastside Bypass. Flow regulated by Bear and Burns Reservoirs. Records furnished by the U. S. Corps of Engineers. Altitude of gage is 189 feet (from topographic map). Drainage area is 190 square miles. In December 1955, prior to installation of this station, a gage height of 22.9 feet was taken from a high water mark and the discharge was estimated as 9,500 cfs. Station installed in 1956; however, prior to 1969 records were not requested for publication by Department of Water Resources. Prior records available at U. S. Corps of Engineers office, Sacramento.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
19	8-114	BEAR CREEK AT MERCED IRRIGATION DISTRICT WEST BOUNDARY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	174	44	128	61	46	74	12	12	45	117	119	119	1
2	146	43	126	56	47	74	111	112	67	114	144	144	2
3	203	42	128	55	51	74	114	99	65	113	141	141	3
4	219	41	128	54	55	74	113	99	73	113	141	141	4
5	157	42	124	53	73	210	114	114	114	114	141	141	5
6	161	147	112	54	74	74	114	114	136	94	117	117	6
7	142	246	114	51	68	52	142	114	114	94	117	117	7
8	194	213	114	51	68	52	142	114	114	94	117	117	8
9	212	173	95	52	62	142	114	114	114	114	117	117	9
10	216	167	94	54	63	142	114	114	114	114	117	117	10
11	143	168	97	125	64	114	114	114	114	97	147	147	11
12	177	277	93	141	62	114	114	114	114	114	117	117	12
13	179	144	76	113	64	114	114	114	114	114	117	117	13
14	123	147	71	143	66	114	114	114	114	114	117	117	14
15	152	153	67	130	114	114	114	114	114	114	117	117	15
16	271	114	62	123	114	114	114	114	114	114	117	117	16
17	229	117	57	256	114	114	114	114	114	114	117	117	17
18	124	114	57	256	114	114	114	114	114	114	117	117	18
19	71	109	56	340	214	114	114	114	114	114	117	117	19
20	68	109	57	340	221	114	114	114	114	114	117	117	20
21	54	113	54	340	106	206	114	114	114	114	117	117	21
22	93	116	57	613	42	271	114	114	114	114	117	117	22
23	49	129	61	340	83	185	114	114	114	114	117	117	23
24	51	131	72	249	74	146	114	114	114	114	117	117	24
25	49	131	67	203	73	171	114	114	114	114	117	117	25
26	48	126	136	181	70	164	114	114	114	114	117	117	26
27	44	125	98	153	67	171	114	114	114	114	117	117	27
28	46	126	71	177	61	144	114	114	114	114	117	117	28
29	48	130	62	173	49	141	114	114	114	114	117	117	29
30	47	128	61	126	114	114	114	114	114	114	117	117	30
31	44		61	106	114	114	114	114	114	114	117	117	31
MEAN	131	131	84	347	112	261	146	114	114	114	117	117	MEAN
MAX	271	246	136	250	495	216	149	142	149	117	153	133	MAX
MIN	44	47	57	51	62	44	114	114	114	114	114	114	MIN
AC FT	6113	114	114	21342	114	114	114	114	114	114	114	114	AC FT

E - ESTIMATED
NB - NO RECORD
+ - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND +

MEAN
DISCHARGE
145

MAXIMUM
DISCHARGE
GAGE HT
MO
DAY
TIME
114

MINIMUM
DISCHARGE
GAGE HT
MO
DAY
TIME
114

TOTAL
ACRE FEET
114

LOCATION		MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R MOB & W	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM TO	ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE					
31 12 12	114	NE 9 68 12E				114				
Station located 4 1/2 miles downstream from Crane Creek, 114 miles from mouth of Atwater.										
Tributary to San Joaquin River via Eastside Branch. Flow regulated by Bear and Burns Reservoirs.										
Records furnished by Merced Irrigation District. Altitude 114 feet (from 114 feet datum, see legend on topographic map). Monthly runoff record data for 114 are published in Bulletin 114.										

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B56100	BURNS CREEK BELOW BURNS RESERVOIR

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1				0	10	228	1.2	0.4					1
2				0	8.5	362	1.1	0.3					2
3				0	6.4	70	1.0	0.2					3
4				0	6.1	245	0.9	0					4
5				0	5.2	474	0.9	0					5
6				0	4.3	112	0.8	0					6
7				0	3.8	60	0.7	0					7
8				0	3.6	42	0.6	0					8
9				0	3.4	32	0.5	0					9
10				4.4	3.2	29	0.4	0					10
11				3.8	3.4	23	0.4	0					11
12	N	N	N	2.6	3.4	18	0.2	0	N	N	N	N	12
13				2.6	3.6	15	0.4	0	O	O	O	O	13
14				241	21	12	0.6	0					14
15				176	14	10	0.7	0					15
16	F	F	F	940	7.5	9.5	0.8	0	F	F	F	F	16
17	L	L	L	299	210	7.5	0.8	0	L	L	L	L	17
18	O	O	O	94	60	6.4	0.6	0	O	O	O	O	18
19	W	W	W	43	25	5.5	0.6	0	W	W	W	W	19
20				55	16	4.9	0.5	0					20
21				128	12	4.3	0.4	0					21
22				102	9.0	3.8	0.4	0					22
23				43	6.7	3.6	0.4	0					23
24				32	5.0	3.4	0.4	0					24
25				30	4.9	3.2	0.4	0					25
26				22	4.0	2.8	0.4	0					26
27				30	3.6	2.4	0.4	0					27
28				36	3.8	1.9	0.4	0					28
29				38		1.8	0.4	0					29
30				15		1.7	0.4	0					30
31				12		1.6		0					31
MEAN				75.8	16.7	57.9	0.6	0.03					MEAN
MAX				940	210	474	1.2	0.4					MAX
MIN				0	3.2	1.6	0.2	0.0					MIN
AC FT				4660	929	3560	35	1.8					AC FT

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAUGE HT	MO	DAY	TIME	DISCHARGE	MINIMUM GAUGE HT	MO	DAY	TIME	TOTAL ACRE FEET
12.7	1400		1	16		0		10	1	0000	9186

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B A M	OF RECORD			DISCHARGE	GAUGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAUGE HT	DATE						
37 22 27	120 16 35	NE 36 68 15E	2590		12-24-55	APR 50-DATE		1950		260.60	USGS
Station located 0.5 mile downstream from Burns Dam. Tributary to San Joaquin River via Bear Creek. Flow regulated by Burns Reservoir since 1950. Records furnished by U. S. Corps of Engineers. Drainage area is 73.8 square miles.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	807400	S.W. FLOW IN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	141	41	325	112	2220	194	74	194	12	31	36	41	1
2	159	35	281	110	1880	466	64	189	21	21	26	40	2
3	167	35	260	109	1676	1736	62	181	42	21	27	41	3
4	170	34	255	126	1290	2350	62	160	6	26	26	40	4
5	155	33	246	145	962	2000	56	120	2	39	33	44	5
6	132	30	235	151	857	2400	73	106	000	39	33	4	6
7	130	221	221	153	849	2710	55	85	36	39	35	51	7
8	147	260	202	149	1170	1960	55	77	4	26	37	53	8
9	147	233	172	147	1680	1400	60	54	0	21	35	71	9
10	160	200	148	139	1690	1170	74	62	41	20	31	46	10
11	189	160	145	159	1560	976	67	121	40	21	31	86	11
12	174	178	136	348	1580	784	62	120	31	23	31	56	12
13	157	207	134	348	1390	640	62	121	44	16	33	43	13
14	13	214	132	314	1040	490	67	115	6	17	37	40	14
15	139	214	125	471	800	306	95	111	52	16	42	41	15
16	235	196	115	1100	922	321	134	113	0	17	41	45	16
17	417	184	110	2250	805	244	140	100	60	17	41	66	17
18	375	191	107	4540	800	202	142	109	40	21	59	68	18
19	196	221	102	4600	966	103	130	109	40	20	52	64	19
20	81	243	97	3940	687	126	143	102	45	37	40	60	20
21	59	223	102	3720	674	135	140	80	41	37	32	60	21
22	47	221	112	3400	581	300	133	69	37	26	33	49	22
23	41	231	110	2940	488	313	125	61	38	26	30	47	23
24	42	240	105	2900	374	205	114	62	37	26	29	43	24
25	41	266	115	2950	311	142	106	62	37	32	32	47	25
26	36	273	128	2990	242	135	125	56	37	32	36	56	26
27	42	271	139	2820	181	119	140	0	37	27	37	55	27
28	56	271	174	2620	158	99	192	70	30	20	38	60	28
29	53	268	149	2420	86	192	70	34	26	39	65	29	29
30	53	320	128	2480	84	100	74	33	2	41	61	30	30
31	49		115	2450	81		70	30		27	52	31	31
MEAN	134	192	159	1651	1014	721	195	192	40.5	26.3	35.4	54.9	MEAN
MAX	415	320	325	4600	2220	2710	195	184	72	39	52	96	MAX
MIN	36	33	97	109	156	81	53	76	33	17	27	40	MIN
AC FT	8249	11410	9773	101500	60410	44300	6248	6200	20	1017	2178	3269	AC FT

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MINIMUM DISCHARGE	TOTAL ACRE FEET
35.1	411	1	25390

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M O B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM TO	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
37 17 42	120 01 00	26 78 10E	20740	70.23	2-20-00	OCT 01-DATE	MAY 01-SEP 01	1961	0.00	USGS	

Station located on bridge 2.3 miles south of Stevinson in Lander Avenue. Flow regulated by gates, weirs and diversions.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1970	B00975	PANOCHIE DRAIN NEAR DOS PALOS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	29	2	19	22	29	56	67	66	67	72	77	50	1
2	22	12	22	22	28	52	70	66	64	69	76	52	2
3	22	2	23	24	29	40	71	66	60	64	76	56	3
4	24	21	23	22	29	49	67	66	60	62	73	53	4
5	20	26	26	22	28	62	62	66	58	61	65	52	5
6	26	47	22	22	26	38	63	64	58	63	68	49	6
7	24	46	23	24	28	36	65	61	61	61	70	42	7
8	27	2	20	25	30	40	67	63	60	59	69	43	8
9	27	34	20	24	35	37	67	67	62	63	70	42	9
10	24	28	24	18	37	32	68	65	65	63	68	41	10
11	22	25	22	27	35	29	65	68	67	66	66	49	11
12	22	24	20	25	36	30	65	71	68	62	62	49	12
13	24	27	19	20	37	26	64	69	70	68	67	45	13
14	23	33	18	32	37	26	66	69	70	70	69	38	14
15	27	33	20	39	39	22	63	67	71	68	68	31	15
16	32	30	21	48	40	24	64	61	70	66	68	29	16
17	26	35	22	28	37	25	66	62	65	70	71	33	17
18	23	28	20	26	37	24	60	61	59	69	73	40	18
19	23	27	22	24	38	32	55	60	61	67	74	41	19
20	21	31	23	24	41	27	56	64	63	63	71	33	20
21	21	27	19	24	35	28	57	70	64	57	70	34	21
22	20	31	20	24	34	34	59	70	68	66	72	36	22
23	23	34	23	23	38	34	52	68	67	63	69	37	23
24	23	33	22	24	35	36	52	67	68	63	63	33	24
25	22	30	22	26	30	38	62	67	69	63	61	26	25
26	20	31	17	28	38	55	66	64	69	71	53	31	26
27	26	28	17	29	37	58	68	67	73	71	53	31	27
28	23	22	16	22	40	61	68	67	75	65	55	24	28
29	25	20	17	24	65	64	65	74	66	54	54	23	29
30	25	21	18	26	66	66	67	71	69	54	27	30	30
31	26	18	26	26	67	67	69		74	49			31
MEAN	24.1	29.8	20.6	25.7	34.4	40.3	63.5	65.7	66.0	65.8	66.3	39.0	MEAN
MAX	32	47	26	48	41	67	71	71	75	74	77	56	MAX
MIN	20	20	16	18	26	22	52	60	58	57	49	23	MIN
AC FT	1384	1771	1265	1579	1910	2477	3779	4042	3921	4044	4074	2321	AC FT

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	DISCHARGE	GAUGE HT	MO	DAY	TIME	DISCHARGE	GAUGE HT	MO	DAY	TIME	TOTAL ACRE FEET
45.1	78	7.73	8	1	1100	15	1.87	12	28	2300	32670

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAUGE HEIGHT ONLY	PERIOD	ZERO OH GAGE	REF DATUM	
			CFS	GAUGE HT	DATE						
36 55 25	120 41 19	NW 1/4 S 12S 12E	69, 84.4	9.19 9.04	11-24-65 5-31-69	FEB 59-SEP 62 OCT 64-SEP 68 APR 69-DATE	OCT 62-JUL 63	1959	-2.00	LOCAL	
Station located midway between Outside and Main Canals 0.5 mile south of Main Canal levee road, 5.6 miles southwest of Dos Palos. This is drainage returned to San Joaquin River. Station is operated under a cooperative agreement between the Department of Water Resources and the Panoche Drainage District. Altitude of gage is approximately 140 feet (from U. S. Geological Survey topographic map).											
a In April 1960, the gage height-discharge relationship was changed by removing the control boards from the entrance to the culvert increasing its capacity.											

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
197	B 04 0	PAIT TOWN LEAF STEVENS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	171	82	142	77	216	210	21	10	116	104	1	14	1
2	166	90	140	79	205	21	10	107	107	111	111	14	2
3	153	114	139	66	197	220	222	10	10	10	111	140	3
4	139	100	133	60	180	243	222	10	10	10	111	129	4
5	116	101	137	68	178	24	21	112	10	10	111	11	5
6	113	113	144	76	182	25	24	10	10	10	10	10	6
7	111	130	133	78	186	24	23	10	10	10	10	10	7
8	104	142	130	66	184	25	224	10	10	10	10	10	8
9	91	132	130	70	188	24	213	10	10	10	10	10	9
10	84	113	141	83	188	244	196	10	10	10	10	10	10
11	72	112	140	108	139	247	21	20	170	100	10	10	11
12	67	112	130	133	176	253	21	192	140	10	10	10	12
13	96	143	131	100	174	244	222	170	134	10	10	10	13
14	74	145	133	162	167	226	224	16	12	10	10	10	14
15	69	145	130	177	174	219	216	106	13	10	10	10	15
16	108	145	117	188	171	212	211	10	120	10	10	10	16
17	138	146	117	232	170	214	170	130	10	10	10	10	17
18	137	143	118	233	168	200	14	10	10	10	10	10	18
19	94	140	121	296	168	210	10	13	110	10	10	10	19
20	67	136	125	279	232	207	10	12	117	96	10	10	20
21	74	145	130	265	21	20	10	120	110	10	10	10	21
22	72	146	135	262	215	196	10	130	140	10	10	10	22
23	97	146	140	314	219	196	10	14	140	10	10	10	23
24	102	146	143	214	212	192	10	117	102	130	110	10	24
25	108	145	134	240	207	190	10	10	10	10	10	10	25
26	107	144	130	239	230	181	10	10	10	10	10	10	26
27	101	143	132	233	224	170	10	10	10	10	10	10	27
28	105	143	125	225	186	160	10	10	10	10	10	10	28
29	103	144	138	217	180	140	10	10	10	10	10	10	29
30	100	144	99	219	210	140	10	10	10	10	10	10	30
31	88		62	222		223		10		10	10		31
MEAN	105	131	129	170	192	217	21	14	111	100	10	10	MEAN
MAX	171	146	141	296	230	247	24	20	162	100	10	140	MAX
MIN	67	92	92	62	154	170	10	10	10	10	10	10	MIN
AC FT	-430	273	284	1045	1067	1360	130	60	130	100	100	100	AC FT

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
** - E AND *

MEAN		MAXIMUM					MINIMUM					TOTAL	
DISCHARGE		DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET	
143		279	67.62	1	1	12:00	4	64.12	1	1	3	1.03	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M O B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE MT	DATE			FROM	TO		
37 14 32	120 51 04	FE1 - 100 100	410	100	100	100	100	100	100	100	100
Station located at Lander Avenue bridge, 1/2 mile south of Lander Avenue, San Joaquin River.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B52580	BEAN CREEK NEAR COULTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.2	0.3	0.3	4.0	7.7	74	2.9	2.8	1.1	0.6	0.3	0.2	1
2	0.2	0.3	0.3	3.8	2.9*	41	2.9	2.8	1.0	0.5*	0.3	0.2	2
3	0.2	0.3	0.3	3.7	5.6	17	2.9	2.8	1.0*	0.5	0.3	0.2*	3
4	0.2	0.3	0.3*	3.5	6.2	21	2.8	2.5	0.9	0.5	0.3*	0.2	4
5	0.2	0.6	0.3	3.2*	5.6	15	2.6	2.5*	0.8	0.5	0.2	0.2	5
6	0.2*	3.1	0.3	3.2	5.2	16	2.9*	2.5	0.8	0.4	0.2	0.2	6
7	0.2	0.8	0.3	3.2	5.0	14	2.9	2.5	0.8	0.4	0.2	0.2	7
8	0.2	0.6*	0.5	3.1	4.8	13	2.7	2.4	1.3	0.4	0.3	0.2	8
9	0.2	0.5	0.4	5.6	4.6	12	2.5	2.5	3.2	0.4	0.3	0.2	9
10	0.2	0.5	0.4	7.8	4.8	11	2.8	2.3	1.6	0.4	0.2	0.2	10
11	0.2	0.4	0.4	4.0	5.0	7.9*	2.7	2.2	1.4	0.4	0.2	0.2	11
12	0.2	0.4	0.4	4.0	8.4	8.6	2.7	2.2	1.5	0.4	0.2	0.2	12
13	0.2	0.4	0.4	4.0	15	7.9	3.1	2.2	1.4	0.4	0.2	0.2	13
14	0.2	0.4	0.3	94	20	7.5	4.5	2.1	1.0	0.4	0.2	0.2	14
15	0.7	0.4	0.3	28	8.6	7.0	4.5	2.0	1.0	0.4	0.2	0.2	15
16	1.0	0.4	0.3	337	11	6.6	4.6	2.0	0.9	0.3	0.2	0.2	16
17	0.5	0.4	0.3	56	37	6.4	3.7	1.7	0.8	0.3	0.2	0.2	17
18	0.3	0.4	0.3	38	16	5.6	3.2	1.6	0.7	0.3	0.2	0.2	18
19	0.3	0.4	0.4	22	12	5.4	3.5	1.5	0.7	0.3	0.2	0.2	19
20	0.3	0.4	1.1	9.6	10	5.0	3.2	1.6	0.7	0.2	0.2	0.2	20
21	0.3	0.4	2.0	96	8.9	4.6	3.2	1.7	0.6	0.2	0.2	0.2	21
22	0.2	0.4	1.0	36	7.9	4.5	3.1	1.5	0.6	0.2	0.2	0.2	22
23	0.2	0.4	0.7	27	7.2	4.3	2.9	1.5	0.6	0.2	0.2	0.2	23
24	0.3	0.4	1.0	36	6.6	4.0	2.8	1.4	0.6	0.3	0.2	0.2	24
25	0.3	0.4	17	18	6.4	4.0	2.9	1.3	0.6	0.3	0.2	0.2	25
26	0.3	0.4	5.2	13	6.0	3.8	3.4	1.4	0.8	0.3	0.2	0.3	26
27	0.3	0.3	2.7	22	5.6	3.5	4.0	1.4	0.9	0.3	0.2	0.4	27
28	0.3	0.3	2.0	15	13	3.4	3.5	1.4	0.6	0.3	0.2	1.0	28
29	0.3	0.3	1.6	12		3.5	3.1	1.4	0.7	0.3	0.2	0.9	29
30	0.3	0.3	2.3	9.1		3.4	2.9	1.4	0.7	0.3	0.2	3.0	30
31	0.3		4.3	8.9		3.2		1.2		0.3	0.2		31
MEAN	0.3	0.5	1.5	30.0	9.2	11	3.2	1.9	1.0	0.4	0.2	0.4	MEAN
MAX	1.0	3.1	17	337	37	74	4.6	2.8	3.2	0.6	0.3	3.0	MAX
MIN	0.2	0.3	0.3	3.1	2.9	3.2	2.5	1.2	0.6	0.2	0.2	0.2	MIN
AC FT	18	30	95	1846	510	683	190	120	59	22	13	21	AC FT

E - ESTIMATED

NR - NO RECORD

* - DISCHARGE MEASUREMENT OR

OBSERVATION OF NO FLOW

- E AND *

MEAN
DISCHARGE
5.6

MAXIMUM			
DISCHARGE	GAGE HT	MO	DAY
826	7.30	1	16
0750			

MINIMUM			
DISCHARGE	GAGE HT	MO	DAY
0.1	1.16	8	14
1800			

TOTAL
ACRE FEET
3607

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R MOB & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	OATE					
37 44 29	120 07 00	SE20 2S 17E	1090	8.13	1-21-69	DEC 65-DATE		1965	0.00	LOCAL

Station located on right bank 0.8 mile east of Greeley Hill and 4.8 miles northeast of Coulterville.
Maximum discharge of record from rating curve extended above 758 cfs.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	B-1251	MAXWELL CREEK AT O'LEARY DAM

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	0.0	0.5	0.5	1.8	10	17	4.4	1.4	0.6	0.5	0.1	0.1	1
2	1.0	0.5	0.5	1.6	8.9	16	4.1	1.4	0.7	0.4	0.0	0.0	2
3	0.0	0.5	0.6	1.8	7.4	44	3.6	1.4	0.7	0.4	0.0	0.0	3
4	0.0	0.5	0.6	1.6	7.0	61	3.4	1.4	0.7	0.3	0.0	0.0	4
5	0.0	1.4	0.6	1.6	6.4	71	3.2	1.0	0.7	0.2	0.0	0.0	5
6	0.0	1.4	0.6	1.5	6.1	47	3.2	1.0	0.7	0.2	0.0	0.0	6
7	0.0	4.6	0.6	1.5	5.8	33	3.2	1.0	0.7	0.2	0.0	0.0	7
8	0.0	2.1	0.8	1.6	5.4	29	3.2	1.0	0.9	0.2	0.0	0.0	8
9	0.1	1.5	1.3	4.6	5.2	23	3.4	1.0	0.9	0.2	0.0	0.0	9
10	0.1	1.3	1.1	2.7	5.2	22	3.7	1.0	1.5	0.2	0.0	0.0	10
11	0.1	1.1	0.9	1.1	5.2	18	2.6	1.0	1.1	0.2	0.0	0.0	11
12	0.1	0.9	0.8	1.1	6.7	15	2.6	1.0	1.1	0.2	0.0	0.0	12
13	0.1	0.8	0.8	1.1	26	14	3.4	1.0	1.1	0.2	0.0	0.0	13
14	0.1	0.8	0.9	24.3	50	13	4.4	1.0	1.0	0.2	0.0	0.0	14
15	1.2	0.8	0.9	40	20	12	3.4	1.0	1.0	0.1	0.0	0.0	15
16	3.2	0.9	0.9	52.3	18	11	3.7	1.3	2.9	0.2	0.0	0.0	16
17	1.9	0.8	0.8	81	150	11	2.8	1.1	2.6	0.1	0.0	0.0	17
18	3.8	0.8	0.8	35	41	9.3	2.4	1.1	2.6	0.1	0.0	0.0	18
19	0.0	0.8	3.4	19	25	8.5	2.0	1.1	2.6	0.1	0.0	0.0	19
20	0.4	3.8	6.4	16	19	8.2	2.4	1.1	2.6	0.1	0.0	0.0	20
21	0.4	0.7	16	186	15	7.9	2.4	1.3	0.6	0.1	0.0	0.0	21
22	0.3	0.7	8.2	55	13	7.0	2.4	1.1	0.6	0.1	0.0	0.0	22
23	0.3	0.7	3.4	26	12	6.7	2.2	1.0	0.6	0.1	0.0	0.0	23
24	0.4	0.7	4.9	52	11	6.4	2.1	0.8	0.6	0.1	0.0	0.0	24
25	0.4	0.7	58	26	8.9	6.1	2.1	0.8	0.4	0.1	0.0	0.0	25
26	0.4	0.7	9.8	18	8.5	5.8	2.4	0.8	0.6	0.1	0.0	0.0	26
27	0.4	0.7	4.6	35	8.2	5.2	2.0	0.8	0.6	0.1	0.0	0.0	27
28	0.4	0.7	3.2	23	9.8	5.2	2.2	0.8	0.6	0.0	0.0	0.1	28
29	0.4	0.6	2.4	18		4.9	2.2	0.8	0.6	0.0	0.0	0.0	29
30	0.5	0.5	2.2	14		4.9	1.9	0.8	0.6	0.1	0.0	0.1	30
31	0.5		1.9	12		4.4		0.6		0.1	0.0	0.0	31
MEAN	0.4	1.4	4.5	48.4	18.4	26.4	2.9	1.3	0.8	0.2	0.0	0.0	MEAN
MAX	3.2	14	58	52.3	150	176	4.4	1.4	3.2	0.5	0.1	0.0	MAX
MIN	0.0	0.5	0.5	1.5	5.2	4.4	1.9	0.6	0.4	0.0		0.0	MIN
AC FT	26	84	277	2974	10238	16231	173	79	44	19			AC FT

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE	DISCHARGE	DISCHARGE	ACRE FEET
0.4	1080	0.1	6313

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD	ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
37 42 58	120 11 20	SE34 28 16E	170E	1.1	12-23-64	DEC 18-DATE			1918		LOCAL

Station located on downstream side of Dostown Road Bridge, 0.1 mile northwest of Coulterville. Tributary to Merced River. Drainage area is 17.0 square miles. Maximum discharge of record 1080 cfs. Curve extended above 9.2 cfs. Altitude of gage is 1,740 feet (from U. S. Geological Survey topographic maps).

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1970	B05170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	256	1390	1270	1200	136	632	106	88	72	41	79	48	1
2	261	963	1270	1140	141	1240	134	87	69	45	74	66	2
3	314	134	1260	1140	1720	1990	141	103	52	54	60	56	3
4	363	1400	1290	1130	1810	2240	158	88	71	53	71	45	4
5	370	1415	1360	1140	1830	2450	156	80	76	53	74	62	5
6	370	1410	1370	1130	1840	2360	147	76	43	60	69	83	6
7	360	1400	1370	1030	1820	2390	150	70	54	57	73	66	7
8	367	1370	1380	784	1840	2380	115	85	65	53	78	60	8
9	376	1370	1380	826	1750	2400	129	83	74	65	73	73	9
10	363	1360	1380	952	1410	1080	109	85	57	79	59	73	10
11	363	1320	1140	444	1420	1470	107	87	52	79	53	77	11
12	370	1530	918	193	1340	1160	107	81	59	76	57	84	12
13	400	1800	907	141	1420	464	110	75	54	71	73	56	13
14	614	1770	912	205	1450	341	112	72	54	79	71	73	14
15	1170	615	918	176	1450	338	127	75	46	71	62	81	15
16	1340	351	918	372	1460	317	120	80	53	73	54	65	16
17	1370	1130	929	187	1740	205	123	76	74	69	54	56	17
18	1370	1300	779	158	1910	216	110	80	50	73	59	31	18
19	1360	1300	605	148	1920	223	98	74	56	71	57	36	19
20	1400	1300	568	147	1860	214	101	70	69	66	48	38	20
21	1570	1300	592	170	1020	212	103	72	62	73	53	41	21
22	1760	503	739	152	1030	207	101	64	63	81	59	45	22
23	1830	314	1070	143	1010	183	101	58	59	76	54	40	23
24	1820	1100	1330	139	1440	160	91	52	79	71	49	54	24
25	1790	1260	1360	136	1450	127	94	52	74	68	56	60	25
26	1630	1260	1360	132	1020	139	91	59	71	73	29	63	26
27	1600	1280	1400	136	1010	130	103	78	74	76	41	53	27
28	1370	1280	1400	137	592	130	114	76	71	83	41	49	28
29	1370	1280	1600	139	114	114	101	71	71	78	32	56	29
30	1370	1280	1630	137	118	118	83	74	76	76	37	83	30
31	1390		1830	137		123		70		65	33		31
MEAN	997	1225	1179	458	1387	831	115	75.5	63.3	66.0	57.5	59.2	MEAN
MAX	1830	1800	1830	1200	1920	2450	158	103	79	83	79	84	MAX
MIN	256	314	588	132	136	114	83	52	43	41	29	31	MIN
AC FT	61200	72860	72510	28170	77040	51080	6831	4643	3769	4181	3535	3523	AC FT

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT	MO	DAY	TIME	DISCHARGE	MINIMUM GAGE HT	MO	DAY	TIME	TOTAL ACFT
532	2990	10.94	3	4	2130	21	5.64	6	18	1900	389400

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R N D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD	ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
37 30 06	120 27 03	NE17 5S 14E	14500	17.10	1-7-65	NOV 58-DATE			1958		221.12 USGS

Station located 0.2 mile downstream from Merced-Snelling highway bridge, 1.4 miles southwest of Snelling. Flow regulated by Exchequer powerplant and McSwain Dam. Prior to November 1958, records available for a site 3.6 miles downstream. Merced Irrigation District Main Canal and several small gravity diversions are upstream from station.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR STATION NO. STATION NAME													
1970 1011 MERCER RIVER AT 2 SE.													
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	289	1840	1360	1470	224	188	219	124	96	61	72	14	1
2	277	881	1360	1190	222	132	200	123	93	61	72	14	2
3	268	951	1390	1190	845	2010	230	129	96	62	73	14	3
4	331	1470	1400	1180	1720	2090	240	120	96	60	73	14	4
5	381	1640	1550	1180	1800	2880	260	120	96	60	73	14	5
6	397	1680	1660	1180	1870	2420	260	120	100	7	74	14	6
7	426	1590	1700	1180	1900	2360	221	116	102	14	75	14	7
8	386	1500	1730	1010	1940	2340	235	112	98	68 E	75	14	8
9	417	1460	1750	954	1980	2320	217	96	115	74 F	62 E	14	9
10	420	1430	1770	1020	1740	1930	170	113	112	72 E	67 E	14	10
11	417	1380	1750	1030	1640	1220	191	120	173	74 E	68	122	11
12	397	1360	1040	521	1660	1110	19	116	112	68 E	73	122	12
13	391	1720	921	427	1600	942	100	118	71	74 F	68	136	12
14	428	1680	920	319	1790	984	100	74	74	71 E	68	134	14
15	762	1230	944	630	1790	725	166	11	76	72 E	71	134	15
16	1390	707	948	746	1760	92	164	122	96	74 E	71	136	16
17	1320	1370	967	784	2640	436	170	120	72	74 E	71	136	17
18	1300	1360	980	343	2240	350	160	120	74	74 E	71	120	18
19	1270	1670	703	314	2170	741	160	136	73	74 E	71	110	19
20	1260	790	650	291	2150	34	160	142	72	74 E	71	111	20
21	1270	646	667	377	1710	310	141	116	76	74 E	71	96	21
22	1580	471	718	380	1310	302	134	106	103	70	75	49	22
23	1600	527	963	304	1300	262	126	114	76	72	68	112	23
24	1630	561	970	258	1320	249	120	98	76	72	66	122	24
25	1550	1430	1060	240	1960	209	127	96	76	71	64	109	25
26	1530	1360	1110	229	1330	206	127	91	77	74	71	110	26
27	1520	1300	1150	224	1240	210	143	96	74	74	71	110	27
28	1120	1280	1190	240	1070	211	136	96	74	74	71	124	28
29	1050	1320	1240	211	210	210	146	96	74	74	71	122	29
30	1020	1360	1210	226	210	210	170	96	74	74	71	126	30
31	1050	1550	1550	225	210	210	170	96	74	74	71	126	31
MEAN	885	1224	1214	640	1564	902	177	11	91.6	75.3	70.6	100	MEAN
MAX	1630	1720	1770	1470	2240	2880	260	136	115	76 E	75	136	MAX
MIN	268	471	650	211	222	20	120	76	62	50	68	44	MIN
AC FT	64420	72630	74420	39910	87600	14200	10040	1000	7740	4700	4020	10120	AC FT

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN		MAXIMUM				MINIMUM				TOTAL	
DISCHARGE	DATE	DISCHARGE	GAGE HT	MO	DAY	DISCHARGE	GAGE HT	MO	DAY	ACRE FEET	DATE
100	12-29	1	1	1	1	40	1	1	1	426.7	1

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
37 25 28	120 39 4	SW 9 68 12E	34400	22.67	12-4-90	100 41-DATUM	AT 41-100 41	100 41	100 41	100 41	USGS USGS
Station located 150 feet downstream from McSwain Bridge, immediately north of gage. Prior to May 2, 1961, station located 250 feet upstream from bridge. Flow regulated by upstream reservoirs and diversions.											
a. Reflects present datum.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1970	B00525	MUSTANG CREEK NEAR BALICO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.0	0.0		0.0		0.0	0.0	0.4	2.2	0.0*		0.0	1
2	0.0	0.0		0.0*	*	1.4	0.0*	0.1	2.1*	0.0		0.0*	2
3	0.2	0.0		0.0		1.9	0.0	0.0	0.0	0.0		0.0	3
4	0.2	0.0		0.0		2.9*	0.0	0.0*	0.0	0.0		0.0	4
5	0.0	0.0		0.0		9.1	0.0	0.0	0.0	0.0		0.6	5
6	0.0	2.9		0.0		5.6	0.0	0.0	0.0	0.0		0.2	6
7	0.0	4.7		0.0		2.8	0.0	0.0	0.0	0.0		0.0	7
8	0.8	2.6		0.0		1.5	0.7	0.0	0.0	0.0		0.0	8
9	0.8	1.8		0.0		0.8	0.0	0.0	0.0	0.0		0.0	9
10	0.0	1.0		0.0		0.3	0.0	0.0	0.0	0.0		0.6	10
11	0.0	0.4		0.0		0.0	0.3	0.0	0.0	0.0		0.3	11
12	0.0	0.0	N	0.1	N	0.0	3.4	0.0	0.0	0.0		0.2	12
13	0.0	0.0	O	0.4		0.0	3.3	0.0	0.0	0.0		0.2	13
14	0.0	0.0		0.9		0.0	1.9	0.0	0.0	0.0		0.0*	14
15	0.1	0.0		5.1		0.0	0.0	0.0	0.0	0.0		0.9	15
16	3.0	0.0	F	6.3*	F	0.0*	0.0	0.0	0.0	0.0		1.3	16
17	3.1	0.0	L	5.6	L	0.0	0.0	0.0	0.0	0.0		1.1	17
18	2.6	0.0	O	3.4	O	0.0	0.0	0.0*	0.0*	0.0		0.6	18
19	1.6	0.0	W	1.9	W	0.0	0.0	0.1	0.0	0.0		0.0	19
20	0.7	0.0		1.5		0.0	0.0	1.3	0.0	0.6		0.0	20
21	0.1*	0.0		2.9		0.0	0.0*	2.1	0.0	0.1*		0.0	21
22	0.0	0.0		3.8*		0.0	0.0	2.4	0.0	0.0		0.0	22
23	0.0	0.0		2.4		0.0	0.0	0.9	0.0	0.0		0.0	23
24	0.0	0.0*		1.4		0.0*	0.0	1.0	0.0	0.0		0.9	24
25	0.0	0.0		0.8		0.0	0.0	1.9	0.0	0.0		1.0	25
26	0.0	0.0		0.3		0.0	0.0	2.2	0.0	0.0		0.2	26
27	0.0	0.0		0.1		0.0	2.3	1.3	0.0	0.0		0.0	27
28	0.0	0.0		0.0		0.0	1.9	2.1	0.0	0.0		0.0	28
29	0.0	0.0		0.0		0.0	0.1	3.1	0.0	0.0		0.0	29
30	0.0	0.0		0.0		0.0	0.8	4.4	0.0	0.0		0.0	30
31	0.0	0.0		0.0		0.0		3.2					31
MEAN	0.4	0.4		1.2		0.8	0.5	0.9	0.1	0.0		0.3	MEAN
MAX	3.1	4.7		6.3		9.1	3.4	4.4	2.2	0.6		1.3	MAX
MIN	0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0		0.0	MIN
AC FT	27	27		73		52	29	53	9	1		16	AC FT

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	TOTAL ACFT FEET
0.4	9.9	2.16	3	5	1100	0.0		10	2	0000	287

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
37 29 58	120 39 48	NW 1/4 5S 12E	281	5.63	1-21-69	NOV 65 ³ -DATE		1965	0.00	LOCAL	
Station located at Oakdale Road Bridge, 4.0 miles northeast of Ballico. Altitude of gage is 180 feet (from U. S. Geological Survey topographic map).											
3 Station installed in November 1965, but data were insufficient to publish prior 1965. Discharge measurements and partial gage height records are available in DWR files.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR				STATION NO.		STATION NAME							
1970				B-12		1200 FEET NEAR CROWS LANDING							
DAILY MEAN DISCHARGE													
(IN CUBIC FEET PER SECOND)													
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	18	24	0.1	0.1	0.1	24	21	21	21	1	1	1	1
2	6.6	26	0.1	0.2	0.1	26	22	22	22	1	1	1	2
3	2.9	36	0.1	0.5	0.1*	22	12	12	12	2	2	1	3
4	2.6	30	0.1	0.1	0.1	4	4.2	2	1	3	1	1	4
5	2.9	31	0.1*	0.0*	0.0	2	1	1	1	29	11	1	5
6	2.3	26	0.1	0.0	0.0	142	7.7*	13	16	4	21	1	6
7	3.9	32	0.1	0.1	0.1	75	1.9	1	3	9.2	14	1	7
8	4.3*	24	0.1	0.3	0.1	6	2.4	1	32	1	16	1	8
9	2.4	12	0.1	0.3	0.1	66	6.4	13	23	14	2	1	9
10	1.9	9.9	0.1	0.2	0.1	6	1	2	1	11	3	1.9	10
11	1.1	6.8*	0.1	0.1	0.1	59	4.2	2	3	1	1	1	11
12	2.2	3.4	0.0	0.0	0.1	26	1	1	1	14	1	4	12
13	3.6	1.2	0.0	0.0	0.2	24	1	24	9	2	1	4	13
14	3.4	0.4	0.1	0.5	0.2	44	12	14	11	1	1	1	14
15	2.8	0.2	0.0	0.0	0.2	54	17	1	32	14	2	6.9	15
16	23	0.2	0.1	176	0.2	7	22	22	1	1	12	42	16
17	36	0.2	0.1	192	0.2	3	1	1	4	31	1	1	17
18	22	0.2	0.1	80	0.2	16	1	1	3.9	24	19	3	18
19	20	0.1	0.1	19	0.3	4	12	6.4	19	19	1.7	1.2	19
20	32	0.2	0.2	4.2*	0.3	4	21	1	31	16	12	22	20
21	51	0.2	0.1	61	0.3	24	23	2	1	1	1	3	21
22	48	0.2	0.1	126	0.2	11	12	1	19	17	19	12	22
23	38	0.2	0.1	47	0.2	51	13	1.4	2	19	17	6.4	23
24	32	0.2	0.1	72	0.2	29	14	1	13	24	4	2.1	24
25	27	0.2	0.1	88	0.3	1	13	24	7.4	17	1	2.8	25
26	23	0.2	0.1	41	0.8	1	13	2	24	2	1	1	26
27	13	0.1	0.1	18	0.7	19	31	14	24	3	1.9	1	27
28	7.9	0.1	0.0	8.7	34	5.6	2	24	31	1	1	1	28
29	43	0.1	0.0	2.3	10	4.6	1	13	1.2	17	1	1.2	29
30	32	0.1	0.0	6.4	10	1	1	1	1	19	1	3.0	30
31	23	0.1	0.1	0.1	3	3	13	1	19	40			31
MEAN	17.2	8.9	0.1	30.3	1.4	64.6	13.1	10.7	18.0	20.1	2.6	21.4	MEAN
MAX	51	36	0.2	192	34	200	31	31	30	4	4	4	MAX
MIN	1.1	0.1	0.0	0.0	0.0	4.6	1	1	1	1	1	1	MIN
AC FT	1055	531	4	1863	76	3947	628	120	1051	1279		272	AC FT

E - ESTIMATED

NE - NO RECORD

* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW

H - E AND *

MEAN		MAXIMUM				MINIMUM				TOTAL	
DISCHARGE		DISCHARGE	GAGE HT	MO	DAY	DISCHARGE	GAGE HT	MO	DAY	ACFE FEET	
19.6		4.7			2					24199	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
37 24 51	121 00 52	NE18 6S 9E	2653E	12.065	2-1-83	DEC 17-DATE		1967 1968		LOCAL	USC&S
Station located 40 feet upstream from River Road Bridge, 3.7 miles southeast of Crows Landing. Prior to February 1, 1968, the station was located 500 feet downstream and was on local datum. During summer months most flows are irrigation drainage returned to San Joaquin River. Maximum discharge of record is a rating curve extended above 1,654 cfs.											
a - Local datum then in use.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B07250	SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1020	1810	1980	2170	3360	1850	840	861	548	481	324	486	1
2	976	1780	2000	2060	3170	1920	815	861	550	457	351	483	2
3	999	1710	2000	1710	2850	2270	781	829	503	406	411	533	3
4	1010	1580	1970	1620	2850	3560	787	819	444	418	394	533	4
5	988	1780	1960	1610	3260	4580	822	794	423	462	386	528	5
6	984	1870	1980	1600	3190	5100	865	723	403	508	381	586	6
7	996	1980	1990	1600	3150	5330	851	668	418	449	367	577	7
8	950	2100	1980	1600	3180	5530	822	681	459	389	398	497	8
9	961	2160	1960	1480	3460	5400	822	662	452	358	416	494	9
10	976	2180	1940	1410	3810	4970	798	675	470	330	454	516	10
11	961	2080	1930	1480	3800	4350	791	727	492	328	428	530	11
12	954	2000	1900	1600	3660	4010	784	710	492	379	431	533	12
13	976	1990	1660	1510	3610	3140	822	717	489	394	431	530	13
14	976	2240	1530	1510	3410	2520	833	691	497	360	394	550	14
15	1010	2360	1500	1530	3160	2030	808	681	536	372	413	568	15
16	1270	2150	1480	2060	2980	1760	826	675	500	344	452	553	16
17	1710	1500	1450	2760	2940	1580	847	665	462	339	475	516	17
18	1900	1370	1440	3460	3040	1400	840	640	439	324	473	550	18
19	1910	1760	1420	4000	3330	1280	784	634	426	328	462	542	19
20	1850	1870	1300	4820	3450	1140	781	622	426	377	416	536	20
21	1830	1920	1230	5130	3390	1120	781	622	431	355	423	562	21
22	1810	1910	1210	5110	2940	1090	750	563	423	337	406	548	22
23	1980	1760	1220	4920	2400	1250	733	519	434	333	450	505	23
24	2100	1340	1350	4490	2210	1200	727	511	431	335	528	503	24
25	2150	1300	1610	4240	2130	1100	727	505	389	342	465	492	25
26	2150	1690	1780	4040	2420	969	777	492	360	372	446	503	26
27	2150	1840	1860	3970	2030	942	815	500	406	391	428	514	27
28	2150	1900	1900	3880	1820	865	805	511	434	360	446	489	28
29	1950	1930	1910	3700		851	812	514	452	333	441	475	29
30	1840	1940	1890	3500		887	854	497	444	324	478	486	30
31	1810		2060	3390		854		511		313	489		31
MEAN	1461	1860	1722	2837	3036	2414	803	648	455	374	428	524	MEAN
MAX	2150	2360	2060	5130	3810	5530	865	861	550	508	528	586	MAX
MIN	950	1300	1210	1410	1820	651	727	492	386	313	324	475	MIN
AC FT	89850	110700	105400	174500	166600	149500	47800	39870	27090	23000	26310	31160	AC FT

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	DISCHARGE	GAUGE HT	MO	DAY	TIME	DISCHARGE	GAUGE HT	MO	DAY	TIME	TOTAL ACR RET
1372	5560	48.85	3	8	1600	0.00	38.25	7	31	0300	93300

LOCATION				MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAUGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM	
			CF5	GAUGE HT	DATE			FROM	TO			
37 26 52	121 00 44	NW R 6S 9E	30760	58.81	2-26-69	OCT 65-DATE	41-SEP 65		1959	0.00	USED	
									1959	0.00	USGS	
									1959	3.51	USED	
Station located at Crows Landing Road Bridge, 4.3 miles northeast of Crows Landing. Flows regulated by upstream reservoirs, and diversions.												

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1970	80,200	SAN JOAQUIN RIVER AT PATTERSON BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1100 E	2100	2110	1810	1410	1910	861	1060	793	499	379	466	1
2	1060 E	2030	2130	2110	3270	2030	457	1843	293	477	343	363	2
3	1080 E	1960	2130	1840	3010	2150	425	1030	764	422	427	521	3
4	1090 E	1830	2110	1700	2860	3030	883	1010	471	438	414	549	4
5	1070 E	1970	2100	1670	3170	4150	921	990	437	564	411	52	5
6	1060 E	2090	2100	1650	3170	4820	497	425	422	475	427	625	6
7	1080 E	2160	2110	1650	3110	5160	1003	648	427	442	401	607	7
8	1030 E	2260	2110	1640	3100	7390	975	800	466	414	391	21	8
9	1040 E	2320	2110	1570	3270	7400	955	881	515	377	419	482	9
10	1060 E	2340	2080	1480	3640	5080	921	800	490	341	474	526	10
11	1040 E	2280	2080	1540	3770	3900	804	925	512	343	427	560	11
12	1030 E	2190	2050	1650	3610	3830	428	930	507	396	427	578	12
13	1060 E	2150	1880	1600	3540	3210	100	912	512	432	449	549	13
14	1060 E	2320	1700	1600	3400	2750	1030	872	510	377	422	625	14
15	1090 E	2470	1640	1610	3180	2250	1010	880	546	362	429	607	15
16	1350 E	2400	1610	1960	3000	1960	986	824	430	325	433	549	16
17	1730 E	1840	1580	2600	2330	1790	1010	838	488	336	501	569	17
18	2040 E	1580	1560	3260	2960	1610	953	791	463	331	437	613	18
19	2050 E	1880	1560	3800	2503	1540	962	711	461	345	433	622	19
20	1930 E	2030	1480	4650	3300	1460	943	754	458	364	446	622	20
21	1910 E	2080	1380	5150	3300	1350	939	728	482	334	483	653	21
22	1890 E	2080	1360	5280	3050	1310	900	693	477	313	435	662	22
23	2060 E	2000	1350	5210	2550	1440	865	610	466	313	482	602	23
24	2180 E	1610	1430	4890	2320	1420	893	587	480	306	610	578	24
25	2280 E	1480	1640	4580	2180	1320	843	564	415	334	535	572	25
26	2280 E	1790	1820	4340	2380	1170	982	572	419	367	501	587	26
27	2280 E	1970	1880	4220	2180	1130	1060	566	466	401	466	613	27
28	2280 E	2040	1920	4120	1920	1060	1060	572	499	334	471	613	28
29	2240	2070	1940	3940	1920	1030	1040	566	521	315	485	587	29
30	2120	2090	1940	3710	1920	1070	1030	555	496	300	541	607	30
31	2070	2050	3510	1997				563		268	521		31
MEAN	1571 E	2046	1836	2927	3006	2464	966	792	489	380	452	580	MEAN
MAX	2280 E	2470	2130	5280	3770	5400	1090	1060	793	555	610	662	MAX
MIN	1030 E	1480	1350	1480	1920	997	865	555	298	309	466	466	MIN
AC FT	96.50E	121.700	112.900	180.000	167.000	151.800	574.800	436.70	240.70	233.60	277.60	340.00	AC FT

E - ESTIMATED
 NB - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM	MO	DAY	TIME	DISCHARGE	MINIMUM	MO	DAY	TIME	TOTAL ACAL FEET
1451	546.0	42.6	3	3	0100	29	32.25	7	24	2100	1051889

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R MOBAM	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
33° 29' 52"	121° 04' 12"	SW1 55 SE	54.6	6-13-88		APR 25-SEP 88	143.8	1959	1	1959	1959
			546.0	42.6	3-3-88	OCT 89-DATE	145.7	1959	2	1959	1959
							146.3	1959	3	1959	1959

Station located 1000 feet downstream on left bank from the Patterson-Turlock Bridge, 3.1 miles northeast of Patterson. Station reactivated 10-1-88.

a. Reflects present datum.
 b. Maximum discharge since station was rated in October 1988.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1970	E04175	TUOLUMNE RIVER AT LA GRANGE BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1448	1241	1630	579	3310	2550	34	23	221	518	21	11	1
2	1586	1220	1460	680	2580	2630	29	23	910	474	21	18	2
3	1590	1250	1150	584	2570	2560	29	22	1020	201	21	17	3
4	1560	1470	955	580	2570	2530	28	151	923	23	21	13	4
5	1540	1700	695	1350	2570	2510	27	763	542	21	22	9.9	5
6	1610	1560	617	1240	2570	2900	27	352	34	21	22	9.1	6
7	845	1410	620	1290	2560	3250	26	228	32	20	22	12	7
8	163	1240	666	1080	2570	3260	24	369	31	20	23	19	8
9	241	1230	660	1030	2560	3110	24	574	76	20	23	9.6	9
10	169	1440	644	584	2570	2960	32	574	511	20	21	7.9	10
11	148	1340	662	577	2510	2640	37	571	967	20	22	8.1	11
12	140	1400	628	828	2570	2250	31	576	1590	21	23	12	12
13	613	1670	617	938	2580	2250	42	578	2560	21	23	17	13
14	835	1390	612	1430	2580	2250	33	577	1190	21	23	7.3	14
15	1190	1210	638	2510	2570	2240	27	570	564	21	25	7.0	15
16	758	1180	692	3350	2550	1490	23	573	234	21	25	11	16
17	705	1590	681	6610	2630	958	23	557	31	21	25	9.9	17
18	658	1460	672	6740	2590	879	23	586	30	21	25	5.1	18
19	641	1240	621	6690	2590	892	24	568	74	21	25	4.9	19
20	999	1170	599	6650	2580	937	24	280	139	21	25	4.7	20
21	1230	1090	394	6730	2590	880	24	31	1170	22	26	4.7	21
22	1240	740	543	6950	2600	933	25	126	1920	22	27	4.6	22
23	1370	650	665	7000	2600	804	25	29	1650	24	26	4.6	23
24	1480	1300	607	6990	2600	672	23	26	1520	22	28	7.4	24
25	1570	1480	612	6970	2600	675	22	129	1860	22	28	14	25
26	1580	1450	629	6920	2590	459	23	31	1190	22	28	14	26
27	1490	1180	600	6890	2600	138	22	23	1060	21	28	13	27
28	1380	1170	592	6630	2370	66	22	22	1250	21	29	12	28
29	1250	1070	693	6200		32	24	22	1410	21	29	9.8	29
30	1230	1070	556	4060		129	24	22	703	22	14	8.3	30
31	1210		589	3320		133		48		22	9.6		31
MEAN	1046	1297	710	3663	2598	1612	26.0	295	847	57.7	23.6	10.2	MEAN
MAX	1610	1700	1630	7000	3310	3260	37	588	2560	518	29	19	MAX
MIN	140	650	394	577	2370	32	22	22	30	20	9.6	4.6	MIN
AC FT	64330	77180	43630	226500	144300	99110	1549	17540	50400	3546	1453	607	AC FT

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	DISCHARGE	MAXIMUM	GAGE HT.	MO	DAY	TIME	MINIMUM	DISCHARGE	GAGE HT.	MO	DAY	TIME	TOTAL
1009	7020	11.23	1	23	0045		1.2	67.13	8	30	1600		30100

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
37 39 59	120 27 40	NW20 3S 14E	52200	188.0	12-8-50	OCT 36-SEP 60			1937		USGS
				186.29	1-26-69	OCT 61-DATE					

Station located at highway bridge, immediately north of La Grange. Flow regulated by La Grange and Don Pedro Dams. Diversions to Modesto and Owens Canals are above La Grange Dam. Drainage area is 1,540 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B04150	TOLEDO RIVER AT HICKMAN WATERFORD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1480	1510	1280	696	3490	2640	290	242	10	77	97	100	1
2	1600	1530	1420	696	2900	2640	180	120	102	715	100	92	2
3	1630	1560	1220	755	2730	2740	180	128	100	608	100	92	3
4	1640	1770	1120	696	2710	2690	172	125	101	234	100	92	4
5	1600	1750	866	857	2690	2740	140	460	14	1	105	94	5
6	1640	1920	762	1200	2680	2780	180	677	315	133	106	97	6
7	1480	1720	735	1160	2680	354	132	413	144	119	19	94	7
8	760	1650	742	1140	2680	330	120	403	110	108	130	85	8
9	602	1540	769	1090	2680	3330	110	100	122	97	162	85	9
10	596	1560	755	998	2680	3090	110	73	228	90	102	87	10
11	439	1630	748	742	2630	2990	122	72	88	97	105	87	11
12	378	1600	746	746	2640	248	133	735	110	102	102	87	12
13	465	1770	722	977	2680	2430	140	73	2500	110	102	90	13
14	1020	1730	715	1140	2690	2430	105	42	1730	102	100	94	14
15	1320	1580	709	2150	2690	2410	100	73	77	105	160	92	15
16	1250	1490	748	2740	2640	2150	130	22	66	100	100	92	16
17	1100	1530	769	5470	2740	1200	122	702	226	100	92	92	17
18	1170	1620	762	6680	2710	1370	110	728	140	100	90	92	18
19	1140	1240	762	6680	2680	106	110	720	173	97	90	94	19
20	1180	1320	729	6660	2670	1320	102	689	160	100	100	97	20
21	1730	1260	696	6790	2670	1140	113	344	200	100	102	97	21
22	1550	1100	444	7070	2670	1210	110	149	1360	100	162	94	22
23	1570	902	762	7240	2670	117	110	224	196	100	100	92	23
24	1710	984	762	7240	2670	964	122	146	1340	100	100	94	24
25	1770	658	735	7230	2690	969	119	122	1770	102	102	92	25
26	1810	1420	735	7190	2720	624	122	206	1690	100	102	92	26
27	1730	1350	735	7150	2720	49	116	133	1940	110	108	102	27
28	1660	1200	702	7050	2570	366	122	106	1500	100	110	102	28
29	1560	1140	709	6680	230	110	110	100	2993	100	102	102	29
30	1530	1120	722	4670	179	120	100	100	1510	92	100	100	30
31	1520		696	3450	254	254	100	100		97	108		31
MEAN	1105	1439	798	3717	2716	1871	134	412	793	100	101	93.6	MEAN
MAX	1810	1920	1420	7240	3400	3360	29	742	2500	110	110	105	MAX
MIN	378	658	444	696	2570	174	102	100	100	90	90	85	MIN
AC FT	80230	85630	49070	228600	150900	113000	2420	23600	53000	964	6220	5568	AC FT

E - ESTIMATED
NR - NO RECORD
- DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN	MAXIMUM	MINIMUM	TOTAL
DISCHARGE 1126	DISCHARGE 7240 GAGE HT 76.1 ft MO DAY TIME 1 2 3 4 5	DISCHARGE -2 GAGE HT 6.1 ft MO DAY TIME 1 2 3 4 5	ACRE FEET 816

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
31° 38' 10"	120° 45' 14"	NW34 3S 11E	5900	96.2	12-8-	JUL 32-OCT 36		1932		-1.12	WATERFORD
						MAR 3 - MAR 3					
						JUL 3 - FEB 36					
						JUL 38-DEC 36					
						MAR 39-DATUM					
Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. In August 1964, this station was moved approximately one-quarter mile downstream to a point immediately upstream of the new Hickman-Waterford road bridge.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	B04130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	83	24	26	27	163	94	77	117	62	121	72	82	1
2	84	23	26	24	157	776 *	78	94	67	218	68	71 *	2
3	80	23	26	24	154	482	79 *	90	81	172	70 *	69	3
4	86	23	26	24	132	180	82	88	79	80	70	76	4
5	82	24	26	23 *	85	732	81	99 *	81	83	67	70	5
6	84	46	24	21	79	488 *	83	84	79	76 *	66	69	6
7	85	73	23	21	76	190	79	80	76	70	64	69	7
8	89	50 *	23	20	72	128	80	80	79 *	74	62	69	8
9	84	36	21 *	21	69	102	85	90	81	73	70	69	9
10	95 *	30	20	24	66	98	81	119	120	72	71	72	10
11	90	26	20	21	63	88	81	150	210	70	72	68	11
12	94	24	20	30	61	85	90	169	200	76	72	64	12
13	90	26	21	93	60	78	97	175	163	76	66	66	13
14	92	24	21	139	60	72	101	175	151	71	67	66	14
15	156 E	23	20	1440 *	121	70	120	168	115	70	69	68	15
16	154 E	22	20	862 *	111	66	125	148	94	68	65	73	16
17	86 E	22	20	1730	87	64	102	129	90	64	62	68	17
18	62 E	21	20	401	188	61	99	133	90	69	61	78	18
19	48 E	22	20	219	150	73	103	91	83	64	66	82	19
20	39 E	24	22	147	106	106	107	87	79	64	67	83	20
21	33 E	24	23	227	90	89	105	83	82	63	72	87	21
22	30 E	24	26	1120 *	81	70	108	88	76	71	72	83	22
23	28 *	24	29	337	76	56	107	90	72	68	69	86	23
24	26	25	27	177	72	57	112	86	73	68	71	81	24
25	25	24	27	139	70	61	116	86	76	68	72	75	25
26	24	25	41	131	67	66	104	89	79	68	72	82	26
27	24	26	116	138	64	72	108	89	80	64	69	86	27
28	23	26	64	260	72	76	123	79	86	70	68	90	28
29	23	26	43	265		82	112	52	86	68	73	94	29
30	23	27	34	192		81	122	78	82	68	71	88	30
31	24		30	172		80		79		71	87		31
MEAN	66.0	27.9	29.2	273	94.7	155	98.2	106	97.1	79.9	69.1	76.1	MEAN
MAX	156	73	116	1730	188	776	125	175	210	218	87	94	MAX
MIN	23	21	20	60	56	56	77	78	72	63	61	64	MIN
AC FT.	4058	1600	1795	16760	5260	9546	5845	6536	5776	4915	4251	4530	AC FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN	DISCHARGE	DISCHARGE	GAUGE HT.	MO	DAY	TIME	DISCHARGE	GAUGE HT.	MO	DAY	TIME	TOTAL
98.0	2390	81.21	1	17	0500		20	67.50	12	10	1800	70930

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAUGE HEIGHT ONLY	PERIOD	ZERO OH GAGE	REF DATUM	USCGS
			CF5	GAUGE HT	DATE						
37 39 26	120 55 19	SE 24 38 9E	7710	88.04	12-23-55	MAR 41-DATE		1941		0.00	

Station located 0.1 mile downstream from Claus Road Bridge, 4 miles east of Modesto. Tributary to Tuolumne River. June 1930 to March 1941, records available for a site 2.5 miles downstream. This is a Department of Water Resources-Modesto Irrigation District cooperative station. Drainage area is 192.3 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

TABLE B-4 (CONT.)													WATER YEAR		STATION NO		STATION NAME	
DAILY MEAN DISCHARGE													1971		E 411		TULLUMNE RIVER AT TULLUMNE CITY	
(IN CUBIC FEET PER SECOND)																		
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY					
1	1820	2187	2300	849	970	2740	400	902	431	120	317	74	1					
2	1790	2087	1630	842	900	244	42	80	420	894	321	223	2					
3	1910	2090	1720	874	3140	430	42	80	70	917	318	91	3					
4	1450	2270	1490	894	2090	241	304	77	1	741	30	30	4					
5	2050	2380	1340	866	2670	241	270	3	100	70	290	344	5					
6	204	2550	1120	1120	2617	337	77	80	4	77	321	321	6					
7	206	254	1010	1350	2620	312	702	114	100	410	254	317	7					
8	1780	2390	970	1370	2670	334	304	20	304	304	202	316	8					
9	1220	2220	970	1290	2790	337	702	70	404	30	204	30	9					
10	1070	2120	980	1250	2740	324	370	730	4	300	20	370	10					
11	497	2200	963	1080	270	712	340	84	800	80	200	310	11					
12	800	2220	469	911	2720	200	704	800	140	377	200	304	12					
13	629	2240	950	971	2720	200	304	800	140	377	200	304	13					
14	914	2430	947	1210	2700	240	300	80	204	740	292	314	14					
15	130	2300	030	1830	2700	2420	290	80	170	720	300	300	15					
16	140	2130	889	3270	2670	247	400	770	100	710	304	300	16					
17	1710	2030	937	4200	2700	2040	380	800	400	210	200	300	17					
18	1400	2130	963	6640	2670	1070	370	800	70	20	300	312	18					
19	1570	1650	954	7260	2600	1710	200	800	100	30	200	321	19					
20	1500	1740	954	7320	2600	1400	304	800	400	331	290	331	20					
21	1600	1600	916	7400	2740	1700	300	702	440	172	290	330	21					
22	1970	1500	877	8160	2760	1400	380	700	800	200	300	321	22					
23	2030	1280	573	8280	2730	1400	353	479	140	710	314	310	23					
24	2120	1150	460	8160	2730	1350	304	472	100	310	312	310	24					
25	2210	1450	963	8100	2740	1010	77	400	1400	300	321	321	25					
26	2300	1750	930	8090	2700	400	370	44	100	310	314	310	26					
27	2160	1740	447	8060	2730	704	370	462	140	700	314	310	27					
28	2280	1560	870	8190	2740	630	370	442	120	700	312	320	28					
29	2310	1470	907	8240	2700	570	304	423	140	300	314	323	29					
30	2110	1390	916	7500	2700	610	304	414	120	300	321	329	30					
31	2040		584	4670		450		416		290	290		31					
MEAN	1732	1957	1756	4208	2659	2068	370	411	1027	423	303	317	MEAN					
MAX	2310	2550	2300	8260	3750	3750	400	800	234	120	320	324	MAX					
MIN	629	1150	573	642	2720	400	340	353	400	200	262	302	MIN					
AC FT	11630	11640	6441	25670	100000	120400	2254	3000	8100	2000	1500	1600	AC FT					

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - EAND *

MEAN DISCHARGE		MAXIMUM DISCHARGE				MINIMUM DISCHARGE				TOTAL ACRE FEET	
DISCHARGE	DATE	DISCHARGE	GAGE HT	NO	DAY	TIME	DISCHARGE	GAGE HT	NO	DAY	TIME
137		100	100	100	100	100	100	100	100	100	100

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M O B S M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
37° 36' 12"	121° 00' 00"	NW 7 4S 8E	400	120	100	100	100	100	100	100	100
			4310	120	100	100	100	100	100	100	100
			4200	120	100	100	100	100	100	100	100

Station located at highway bridge, 1.38 miles above mouth. Backwater at times from San Jacinto River affects the stage-discharge relationship. Drainage area is 1.86 square miles. Flows regulated by upstream reservoirs and dam diversions.

Reflects present datum.

* Maximum discharge since Department of Water began record operation of station in April 1961.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1970	B07040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	3360	4030	3400	2760	8960	5030	1160	1480	1250	2140	E 678	910	1
2	3140	4000	3560	2830	8110	5150	796	1420	1360	1620	E 741	824	2
3	3160	3980	3760	2800	7360	5310	1120	1410	1420	E 1430	# 767	824	3
4	3250	3900	3610	2800	6480	5470	1210	1350	1690	E 1280	758	837	4
5	3400	4030	3460	2670	6240	6650	1230	1300	1670	# 1110	711	891	5
6	3370	4320	3230	2630	6440	8200	1290	1410	1590	E 1060	771	947	6
7	3400	4430	3100	3170	6530	8720	1360	1540	1160	E 1060	737	1010	7
8	2220	4410	3100	3150	6530	9240	1360	1400	1070	E 919	703	937	8
9	2640	4360	3100	3140	6600	9410	1310	1400	1080	E 828	732	837	9
10	2290	4290	3090	2990	6920	9330	1270	1620	1030	E 824	745	833	10
11	2160	4280	3040	2600	7280	8800	1220	1780	1200	E 797	715	873	11
12	1970	4290	3030	2650	7260	8040	1280	1860	1700	E 806	699	942	12
13	1940	4240	3000	2650	7140	6770	1380	1870	2160	E 924	737	970	13
14	1930	4350	2810	2930	7030	6710	1480	1880	3130	E 855	732	1010	14
15	2460	4540	2720	3370	6880	5440	1450	1850	2540	E 750	724	989	15
16	3100	4430	2600	5000	6690	4850	1430	1820	1850	741	797	947	16
17	3200	4110	2590	5930	6500	4220	1440	1890	E 1500	690	811	937	17
18	3260	3650	2590	7460	6460	3030	1390	1820	E 1220	703	767	947	18
19	3540	3600	2550	8840	6620	2770	1390	1770	E 1040	732	673	1040	19
20	3540	3560	2580	10350	6730	2470	1370	1730	E 961	745	745	1110	20
21	3550	3560	2450	11280	6700	2520	1310	1640	E 989	707	754	1130	21
22	3840	3500	2360	11760	6640	2210	1270	1350	E 1350	620	789	1120	22
23	3970	3370	2150	10560	6180	2360	1210	1260	E 1850	640	802	1050	23
24	4160	2990	2360	11990	5690	2550	1200	1180	E 2330	645	887	1030	24
25	4380	2770	2540	12400	5360	2510	1330	1300	E 2120	657	873	1000	25
26	4540	3200	2570	12350	5410	2350	1400	1360	E 2210	699	855	1020	26
27	4610	3490	2590	12170	5610	2190	1520	1300	E 2260	754	860	1080	27
28	4580	3550	2650	12080	5240	1830	1520	1250	E 1920	745	833	1090	28
29	4520	3460	2620	12300	1570	1420	1210	1420	E 2420	682	855	1060	29
30	4260	3430	2590	12030	1520	1440	1290	1290	E 2510	653	901	1050	30
31	4090		2680	10630	1370		1320	1320	E 645	933			31
MEAN	3385	3871	2855	6797	6629	4793	1319	1518	1666	866	776	975	MEAN
MAX	4610	4540	3760	12400	8980	9410	1520	1890	3130	2140	933	1130	MAX
MIN	1930	2770	2150	2650	5240	1370	796	1180	961	620	673	824	MIN
AC FT.	208100	230300	175600	417400	368200	294700	78500	93340	100300	54470	47710	58010	AC FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
2938	12400	30.17	1	25	0000	600	14.27	7	22	2100	2127000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD				DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M O B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM	TO	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE							
31° 36' 28"	121° 13' 37"	SW29 3S 7E	45,550	36.87	2-28-69	JAN 50-MAR 52	SEP 43-DEC 49	1943	1959	0.00	USED	
						OCT 65-DATE	APR 52-SEP 65	1959		0.00	OSGS	
								1959		3.41	USED	

Station located at State Highway 132 Bridge, 13 miles west of Modesto, 2 miles upstream from mouth of the Stanislaus River. Gage height-discharge relation affected by backwater from the Stanislaus River during high flows in the Stanislaus. Flows regulated by upstream reservoirs and diversions. Annual maximum discharge shown does not reflect the maximum gage height. Due to a backwater condition caused by the Stanislaus River, the annual maximum gage height was 31.35 feet and occurred at 1800 hours on 1-23-70.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	W 3117	STANISLA'S RIVER AT WEAVER BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	703	619	644	1770	2990	2520	1800	35	2180	147	31	30	1
2	694	595	712	1100	2620	4530	187	38	2480	48	33	26	2
3	686	151	694	829	3190	4150	108	41	2930	37	33	27	3
4	716	132	666	926	3580	3420	3	34	2920	36	35	31	4
5	712	571	681	926	3240	3580	66	34	2620	37	32	31	5
6	673	188	673	693	2990	3110	63	72	1470	33	32	32	6
7	665	130	660	124	2710	2720	38	65	860	35	32	35	7
8	660	124	673	936	2540	2720	62	65	620	35	32	27	8
9	639	124	619	961	2390	2500	53	64	1920	39	32	27	9
10	587	128	485	946	2350	2300	32	644	3670	31	30	26	10
11	615	208	673	946	2320	2240	51	68	2020	29	30	26	11
12	665	203	690	946	2270	2110	51	699	720	31	30	25	12
13	652	205	681	951	2370	1870	53	70	177	30	31	27	13
14	614	205	681	1650	1600	1680	46	70	111	29	36	28	14
15	521	215	681	2110	1800	1680	45	118	58	30	17	29	15
16	525	217	656	4330	1620	1880	4	248	45	28	33	26	16
17	518	210	690	12200	1660	1680	49	240	41	30	31	27	17
18	521	210	673	9320	2040	1880	51	240	36	33	33	31	18
19	518	203	690	7440	2330	1680	47	2470	36	33	34	30	19
20	514	203	690	6980	2340	1890	47	228	33	28	31	28	20
21	521	335	725	8430	2340	1850	47	1930	32	28	33	26	21
22	518	686	720	16700	2350	1690	52	194	48	27	33	26	22
23	525	694	690	10200	2350	1440	44	600	58	24	33	26	23
24	533	690	1040	8320	2340	797	44	2000	465	31	34	26	24
25	563	699	2140	8300	2240	501	43	1600	348	30	36	26	25
26	548	716	2080	6290	2010	189	47	1470	310	30	34	30	26
27	559	716	2050	8020	2000	213	51	1500	306	30	36	32	27
28	591	716	2030	6970	2000	426	50	1630	1950	34	35	26	28
29	587	703	2030	5630	367	34	34	2000	1130	33	35	32	29
30	627	712	2010	4482	373	3	3	1720	154	31	34	26	30
31	615		1990	3020	685			1620		30	33		31
MEAN	600	383	995	4676	2399	1922	86.4	114	1020	35.9	33.0	28.1	MEAN
MAX	716	716	2140	16700	3580	4530	108	248	3620	147	37	30	MAX
MIN	514	124	485	124	1800	1680	34	34	33	27	30	25	MIN
AC FT	36870	22800	61160	287500	133200	118200	27	143	60470	2208	231	1670	AC FT

E - ESTIMATED
NR - NO RECORD
+ - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- EAND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
1108	1820	1.20	1	22	10	24	1.24	"	11	16.00	802300

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M O B A M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATE
			CFS	GAGE HT	DATE				FROM	TO	
37 47 18	120 45 41	SW 4 2S 11E	62000	31.8	12-23-7	MIN 26-DEC 3M APR 4-DATE					100.21
Station located at bridge, 5.0 miles east of Oakdale. Flow regulated by reservoirs and powerplants. Drainage area is 1,020 square miles. This station is equipped with radio teleometer.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

TABLE B-4 (Cont.)													
DAILY MEAN DISCHARGE													
(IN CUBIC FEET PER SECOND)													
		WATER YEAR		STATION NO.		STATION NAME							
		1970		B03115		STANISLAUS RIVER AT KOETITZ RANCH							
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1190	694	722	1730 E	3700	1960	843	302	1620	663	225	271	1
2	1010 *	660	684	1720 E	3220	2450	1040	300	1990	542	232	275 *	2
3	974	669	711	1180 E	2860	3780	669 *	303	2250	439 *	251 *	271	3
4	976	474	711	905 E	3220	3890	493	294	2660	381	204	290	4
5	1010	376	711	964 E	3520	3470	408	239	2670	345	214	309	5
6	1040	365	711	961	3250	3510	395	267	2130	322	230	329	6
7	994	366	707	829	2960	3110	402	272	1650	313	240	287	7
8	989	349	703	506	2740	2740	368	475	1240	280	251	230	8
9	996	324	709	770	2560	2680	331	654	1100	280	265	216	9
10	961	306	692 *	917	2430	2620	340	707	1900	267	238	241	10
11	949	302	600	927	2360	2310	357	759	3030	257	197	268	11
12	939	324	667	922	2310	2270	382	759	2190	243	192	292	12
13	947	339 *	709	924	2270	2100	381	832	1270	260	188	299	13
14	912	339	707	956	2270	1930	386	786	905	238	208	313	14
15	941	339	707	1540	1880	1890	373	746	784	241	200	313	15
16	867	339	707	2130	1820	1870	362	1040	636	243	231	336	16
17	737	337	694	3290	1820	1650	374	1920	598	240	255	332	17
18	701	334	703	6430	1840	1900	354	2210	559	261	249	351	18
19	644	328	711	a	1990	1900	336	2240	488	255	232	306	19
20	616	322	722	6560	2190	1920	355	2240	435	234	211	336	20
21	610	321	726	6380	2220	1930	326	2080	435	221	229	346	21
22	604	351	742 E	a	2220	1860	304	1520	461	230	239	343	22
23	600	574	737 E	a	2230	1730	306	773	709	217	266	322	23
24	600	654	720 E	a	2230	1480	311	832	809	235	292	310	24
25	602	677	910 E	a	2220	1080	322	1660	669	220	263	267	25
26	626	690	1760 E	a	2130	874	354	1740	578	226	251	326	26
27	622	739	1750 E	a	1970	716	310	1460	592	230	267	377	27
28	626	713	1740 E	6550	1940	646	271	1400	490	213	287	357	28
29	646	720	1740 E	6230	713	306	1530	1310	222	263	348	29	29
30	656	716	1740 E	5760	658	315	1870	1170	198	269	267	30	30
31	679		1730 E	5060	644		1740		214	303		31	31
MEAN	812	468	912		2442	2016	404	1096	1244	262	241	305	MEAN
MAX	1100	720	1760		3700	3890	1040	2240	3030	663	303	377	MAX
MIN	600	302	600		1820	644	271	239	435	198	188	216	MIN
AC FT	49940	27520	56100		115600	124000	24030	67390	74040	17320	14800	18140	AC FT

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *
 ~ - SEE (a) BELOW

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT	MO	DAY	TIME	DISCHARGE	MINIMUM GAGE HT	MO	DAY	TIME	TOTAL ACRES FEET
47.56	1	23	0500	170	27.42	8	11	1300			

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF. DATUM	
			CFS	GAGE HT	DATE						
34 41 N	121 10 W	SW 2 RS 7E		50.5	12-24-55	OCT 62-DATE	MAR 50-SEP 62	1950 1962	-0.63	USCAGE	
								1963	0.37	USCAGE	
Station located on left bank 9.35 miles upstream from mouth, 0.6 mile northwest of Bacon and Gates Road Junction, 3.7 miles southwest of Ripon. It is possible that backwater from San Joaquin River could affect the stage-discharge relationship. Flow regulated by upstream reservoirs and diversions.											
Water bypasses station by overflowing flood plain on right bank and discharge is not computed. Overflowing occurs at approximately 45 feet gage height.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1971	B07-2	SAN JUAN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	4870	4920	4360	4840	13300	7170	2800 E	1000	2420	800	1220	1	
2	4420	4890	4430	4910	11400	7360	2200 E	1000	2420	1000	1220	2	
3	4360	4880	4650	4660	10300	8040	1960	1400	2130	1110	1700	3	
4	4460	4730	4560	4100	9680	8600	1600	1400	1900	1050	1400	4	
5	4360	4670	4330	3950	9670	10200	1720	1400	1700	950	1210	5	
6	4420	4830	4200	3950	9970	11100	1400	1700	1400	1000	1220	6	
7	4400	5030	4040	4210	9570	11700	1400	1400	1400	1410	1300	7	
8	4490	5040	4020	3990	9360	11000	1600	1400	2420	1430	900	8	
9	4110	4970	4010	4030	9150	11900	1700	1400	2400	1270	1040	9	
10	3770	4880	4010	4100	9140	11800	1700	2110	2400	1270	1400	10	
11	3620	4860	3430	4040	9360	11200	1700	2300	3000	1240	900	11	
12	3470	4800	3010	3860	9360	11400	1700	2420	3000	1270	900	12	
13	3400	4450	3930	3860	9230	9120	1400	2400	3200	1380	900	13	
14	3340	4910	3770	4060	9260	8200	1700	2100	3400	1730	950	14	
15	3730	7150	3640	4630	8840	7550	1600	2400	3000	1100	900	15	
16	4230	5100	3590	6720	8500	7030	1600	2200	2600	1120	900	16	
17	4360	4850	3590	6220	8380	6010	1600	2110	1900	1100	1000	17	
18	4270	4430	3560	12200	8340	5000	1600	3400	1620	1110	1060	18	
19	4420	4300	3560	17400	8530	3310	1600	3000	1300	1120	960	19	
20	4440	4280	3580	18200	8690	5050	1500	2400	1220	1130	900	20	
21	4420	4250	3480	18400	9020	5670	1400	3400	1230	1020	900	21	
22	4640	4210	3430	18700	9000	4860	1380	3000	1100	900	1410	22	
23	4760	4230	3310	24000	8750	4770	1300	2420	2140	920	1340	23	
24	4890	4060	3380	24000	8370	4650	1300	2100	2090	950	1210	24	
25	5060	3820	3550	21200	8100	4450	1400	2100	2000	970	1230	25	
26	5220	4110	4100	20200	8010	4950	1400	2400	2610	1080	1140	26	
27	5320	4410	4510	19700	7470	3700	1600	2500	2400	1100	1150	27	
28	5310	4500	4660	14400	7730	3450	1600	2400	2440	1130	1130	28	
29	5290	4430	4630	18900	7300	3100	1500	2400	3440	1080	1170	29	
30	5100	4380	4710	17900	3270	3270	1610	2400	3160	940	1140	30	
31	4980		4770	18200		3130		2400		920	1270	31	
MEAN	4462	4428	4012	11120	9191	7190	1473	2103	2500	1330	1044	1313	MEAN
MAX	5320	5150	4770	24000	13300	11300	2500	3400	3400	2920	1250	1500	MAX
MIN	3340	3820	3310	3680	7730	3130	1330	1400	1220	900	900	1000	MIN
AC FT	2744.30	2754.00	2467.00	6635.00	6105.00	4410.00	947.00	1472.00	1610.00	817.00	442.00	866.00	AC FT

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM DISCHARGE	MINIMUM DISCHARGE	TOTAL ACRES FEET
4232	2400	900	3064

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M O B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 49 34	121 10 35		79000	21.74	12-9-5	JUN 22-DEC 25		1.01	1959	6.4	USFD
				32.81	12-9-5	JAN 24-FEB 21					
			52000	34.55	1-27-63	JUN 27-OCT 28		1.01	1959	5.76	USCGS
						MAY 29-DATE		1.01	1959	1.30	USCGS

Station located on left bank 20 feet downstream from the Dulles Ferry Highway Bridge, 3 miles downstream from the Stanislaus River 3.4 miles northeast of Vernalis. Drainage area is approximately 19,740 square miles. Natural flow of stream affected by storage reservoirs, power, levee projects, ground water with drains and levees for irrigation. Low flows consist mainly of return flow from irrigation. This station is operated under the Federal-State Cooperative Program. Equipped with DWR rain telemeter. The records are furnished by the U. S. Geological Survey.

a Reflects present datum. The gage height of 32.41 feet does not represent the maximum discharge of 79,000 cfs as water was bypassing the station through levee breaks upstream from station.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	C01120	SOUTH FORK KINGS RIVER BELOW EMPIRE WEIR #2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN MAX MIN AC. FT.													MEAN MAX MIN AC. FT.

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN DISCHARGE

MAXIMUM				
DISCHARGE	GAGE HT	MO	DAY	TIME

MINIMUM				
DISCHARGE	GAGE HT	MO	DAY	TIME

TOTAL ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CF5	GAGE HT	DATE			FROM	TO		
36 10	119 50	NW20 20S 20E	4102a		6-12-69	1937-DATE					
Station located 1.0 mile southwest of Stratford. South Fork Kings River, composed of Kings River water, is a tributary to the Tulare Lake area. Records furnished by Kings River Water Association.											
a. Maximum discharge since 1950.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1968	00202	CROSS CREEK BELOW LAKELAND CANAL #2

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX													MAX
MIN													MIN
AC FT													AC FT

No flow

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & W	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
36 12 42	119 34 00	NE 10 20S 22E				1921-DATE					
Station located downstream from Cross Creek Weir, 4 miles east of Guernsey, tributary to Tulare Lake area. At times the flow is a combination of water from Kaweah River, Kings River, and Cross Creek. Records are computed by the use of weir measurements taken at daily intervals and are furnished by the Cross Creek Irrigation District.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

TABLE B-4 (Cont.)					WATER YEAR		STATION NO.	STATION NAME								
DAILY MEAN DISCHARGE					1970		C03913	PRIANT-KERN CANAL DELIVERY TO PORTER SLOUGH								
(IN CUBIC FEET PER SECOND)																
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY			
1	10				0	6	6	2	0	5	6	4	1			
2	10				0	6	6	0	0	4	4	4	2			
3	10				0	5	6	0	0	6	4	4	3			
4	10				0	5	6	0	3	5	6	4	4			
5	10				3	6	6	0	1	5	7	4	5			
6	10				4	6	6	0	0	6	6	4	6			
7	10				4	6	6	0	0	7	6	3	7			
8	10				4	6	4	0	0	7	7	4	8			
9	10				4	6	3	4	0	7	7	4	9			
10	10				4	6	3	2	0	6	7	4	10			
11	10				4	6	3	0	0	6	7	4	11			
12	10	N	N	N	4	6	3	0	0	6	7	4	12			
13	10	O	O	O	4	6	3	0	4	6	8	4	13			
14	10				4	6	2	0	5	5	8	3	14			
15	10				4	6	1	0	5	6	8	4	15			
16	11	F	F	F	4	6	0	0	5	6	8	4	16			
17	4	L	L	L	4	6	0	0	6	5	6	3	17			
18	0	O	O	O	4	6	0	0	5	4	5	4	18			
19	0	W	W	W	4	6	0	0	6	4	5	4	19			
20	0				3	6	0	0	5	6	5	4	20			
21	0				4	6	0	0	4	9	5	4	21			
22	0				4	6	0	0	4	10	5	3	22			
23	0				4	6	0	3	4	10	5	3	23			
24	0				4	6	0	6	4	9	5	4	24			
25	0				4	6	0	6	4	9	4	4	25			
26	0				5	7	0	2	4	8	4	4	26			
27	0				6	8	0	0	4	9	4	4	27			
28	0				6	8	0	0	4	9	4	4	28			
29	0					6	3	0	4	10	4	4	29			
30	0					5	4	0	5	10	4	4	30			
31	0					6		0		10	4	4	31			
MEAN	5.3				3.5	6.1	2.4	0.8	2.9	6.9	5.6	3.8	MEAN			
MAX	11				6	8	6	6	10	8	8	4	MAX			
MIN	0				0	5	0	0	0	4	4	3	MIN			
AC FT	327				196	373	141	50	171	426	347	228	AC FT			

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN
DISCHARGE
3.1

MAXIMUM				
DISCHARGE	GAGE HT	MO	DAY	TIME
11	0.40	10	16	

MINIMUM				
DISCHARGE	GAGE HT	MO	DAY	TIME
0		10		

TOTAL
ACRE FEET
2259

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
36 05 W	119 04 50	SW20 21S 27E				MAY 50-DATE					
These flows are deliveries from Friant-Kern Canal into Porter Slough. Delivery is at the intersection of Porter Slough with the Friant-Kern Canal approximately 4 miles west of Porterville. Records furnished by U. S. Bureau of Reclamation.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1971	1-10-1	FRIANT-PERN CANAL DELIVERY TO TILE RIVER

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	31	0	100										1
2	0	0	100										2
3	0	0	94										3
4	0	0	100										4
5	0	0	100										5
6	0	0	100										6
7	0	0	100										7
8	0	0	100										8
9	0	0	100										9
10	0	0	100										10
11	0	0	100										11
12	0	0	100	4	N	N	N	N	N	N	N	N	12
13	0	0	74	4	O	O	O	O	O	O	O	O	13
14	0	0	0	10									14
15	0	0	0	9									15
16	0	0	0	0	F	F	F	F	F	F	F	F	16
17	0	0	0	0	L	L	L	L	L	L	L	L	17
18	0	0	0	0	O	O	O	O	O	O	O	O	18
19	0	0	0	0	W	W	W	W	W	W	W	W	19
20	0	0	0	0									20
21	0	4	24	0									21
22	0	109	82	0									22
23	0	100	89	0									23
24	0	100	89	0									24
25	0	100	89	0									25
26	0	100	89	0									26
27	0	100	89	0									27
28	0	100	89	0									28
29	0	100	89	0									29
30	0	100	89	0									30
31	0	0	77	0									31
MEAN	1.0	31.7	64.7	37.2									MEAN
MAX	31	109	100	77									MAX
MIN	0	0	0	0									MIN
AC FT	6.1	18.7	42.4	10.4									AC FT

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT	MO	DAY	TIME	MINIMUM DISCHARGE	GAGE HT	MO	DAY	TIME	TOTAL ACRE FEET
11.2	12	1.1	24	22			1				

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M O B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
36 04 2'	118 00 1'	MM29 21S 27'				MAX	1.1				

These flows are deliveries from Friant-Pern Canal into Tile River. Point of delivery is located on the Tile River approximately 4 miles west of Porterville where Friant-Pern Canal crosses the Tile River. Records furnished by U. S. Bureau of Reclamation.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1970	C03169	TULE RIVER BELOW PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	47	144	43	22	136	100	0						1
2	132	152	36	21	119	115	0						2
3	217	152	35	23	132	87	0						3
4	174	140	33	23	128	80	0						4
5	144	122	33	22	107	80	0						5
6	144	122	33	30	115	87	5.1						6
7	174	107	36	32	103	107	0						7
8	206	93	40	25	115	111	0						8
9	226	93	47	26	115	107	0						9
10	231	100	56	33	100	93	0						10
11	217	100	56	32	111	97	0						11
12	204	107	52	28	157	103	0	N	N	N	N	N	12
13	174	111	52	27	157	107	0	O	O	C	O	O	13
14	169	115	40	27	152	97	0						14
15	167	115	28	37	136	93	0						15
16	226	107	22	63	119	83	0	F	F	F	F	F	16
17	213	100	19	119	107	58	0	L	L	L	L	L	17
18	178	100	27	111	107	47	0	O	O	O	O	O	18
19	169	97	33	115	107	60	0	W	W	W	W	W	19
20	152	78	32	83	115	103	0						20
21	181	70	27	60	107	111	0						21
22	169	58	22	52	103	115	0						22
23	213	40	17	70	83	115	0						23
24	226	43	16	87	54	54	0						24
25	204	45	16	93	54	2.3	0						25
26	191	45	21	83	70	0	0						26
27	152	47	33	78	73	0	0						27
28	111	47	35	78	83	0	0						28
29	103	49	33	87	0	0	0						29
30	111	49	25	60	0	0	0						30
31	128		23	93	0	0							31
MEAN	172.5	92.1	32.9	56.6	109.5	71.4	0.2						MEAN
MAX	231.0	152.0	56.0	119.0	157.0	115.0	5.1						MAX
MIN	40.0	40.0	16.0	21.0	54.0	0	0						MIN
AC FT	17610	5482	2025	3495	6079	4386	10						AC FT

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- END *

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT	MO	DAY	TIME	MINIMUM GAGE HT	MO	DAY	TIME	TOTAL ACRE FEET
44.3	240	2.04	10	10	0900	0	3	25		32090

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
36 04 40	119 06 22	NW 30 21S 27E	8850	9.27	12-7-66	FEB 57-DATE		1957 1959	0.00 -3.48	LOCAL LOCAL	
Station located 330 feet upstream from Rockford Road Bridge, 5.1 miles west of Porterville. Flows regulated by Success Reservoir and spill from Friant-Kern Canal. Altitude of gage is approximately 400 feet (from U. S. Geological Survey topographic map). Flows include Central Valley Project releases from Friant-Kern Canal to Tule River. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1977	C0347	JAYPOLL-MORELAND DITCH ABOVE PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	15.8	15.8	0	9.4	0	9.6		12.1	18.1	14.8	8.4	14.2	1
2	16.2	15.8	0	0.4	0	9.3		17.7	18.9	13.7	8.7	12.7	2
3	16.2	16.2	0	4.2	0	9.3		1.7	18.9	14.8	9.1	13.7	3
4	16.2	16.5	0	9.0	0	9.3		9.3	16.8	17.7	4.7	13.7	4
5	16.2	16.1	0.4	9.3	0	9.3		10.4		17.2	7.8	13.7	5
6	15.8	14.2	0.8	9.0		9.1		10.1	8.7	17.7	8.4*	13.7	6
7	15.8	17.7*	0.8	8.4	0	9.1		11.1	8.4	17.2	8.7	14.8	7
8	16.2	0	4.1	7.8	0	9.1		11.4	8.7	18.2	8.4	16.2	8
9	16.2	0	8.4	7.8	0	9.1	9.7	11.9	8.4	18.1	9.0	15.8	9
10	16.1	0	2.4	7.1	0	9.1	13.1	1.7	1.7	18.1	17.4	14.8	10
11	17.2	0	3.3	7.1	0	9.1	13.1	9.6*	15.1	18.2	7.2	14.8	11
12	17.2	0	9.3	7.8	0	9.3	14.1	9.3	17.2	17.7	7.2	14.8	12
13	17.8	0	6.3	9.3	0	9.1	12.1	9.1	17.2	17.8	11.3	14.8	13
14	17.8	0	0.3	7.0	0	9.1	17.1	1.1	18.1	17.2	11.9	14.8	14
15	17.8	0	3.6	7.1	0	9.1	1.4	13.2	1.2	17.8	11.3	14.2	15
16	16.2	0	6.7	7.1	0	9.1	12.1	13.2	2.3	14.7	11.3	14.2	16
17	16.2	0	8.7	0	0	9.1	13.2	17.2	12.2	12.8	14.2	14.2	17
18	19.3	0	8.7	0	0	9.3	13.1	17.1	7.1	11.3	14.8*	14.2	18
19	19.3	0	9.0	0	0	4.1	17.2	18.1	7.1	11.3	15.8	14.2	19
20	21.1*	0	9.3	0	0	0	17.2*	18.1	7.1	11.3	17.2	14.2	20
21	20.6	0	8.4	0	0	0	18.1	18.1	7.2	11.3	14.5	13.7	21
22	17.5	0	8.1*	0	0	0	18.1	18.1	7.1*	11.3	14.2	13.9	22
23	15.8	0	8.4	0	0	0	16.2	18.1	8.1	11.3	14.2	14.8	23
24	15.2	0	9.0	0	0	0	16.2	18.1	8.1	11.3	13.9	14.8	24
25	14.8	0	9.0	0	0	0	16.2	18.1	8.1	11.9	14.2	15.2	25
26	15.2	0	9.0	0	7.0*	0	16.2	17.2	8.1	11.3	14.2	15.7	26
27	14.8*	0	9.0	0	9.6	0	14.7	14.1	8.1	11.3	13.9	15.2	27
28	14.8	0	9.0	0	9.6	0	11.3	17.8	7.1	14.2*	13.5	14.8	28
29	14.8	0	9.6	0	0	0	14.2	17.8	7.1	12.7	13.2	8.7	29
30	14.8	0	2.2	0	0	0	14.2	17.8	12.1	11.3	13.9	1.2	30
31	15.2	0	8.4	0	0	0	16.2	16.2	12.1	9.3	13.9	8.7	31
MEAN	16.7	3.2	4.8	3.1	1.1	9.1	17.4	13.1	1.7	4.1	11.7	13.7	MEAN
MAX	20.6	16.5	9.6	9.3	9.6	9.3	17.1	18.1	18.1	17.7	17.8	16.2	MAX
MIN	14.8	0	0	0	0	0	0	9.3	8.4	8.1	4.7	1.2	MIN
AC FT	1.2	1.1	2.84	1.90	1.2	1.3	1.7	8.7	1.2	6.9	7.5	8.7	AC FT

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 ** - E AND *

MEAN DISCHARGE CFS	MAXIMUM DISCHARGE GAGE HT. MO DAY TIME	MINIMUM DISCHARGE GAGE HT. MO DAY TIME	TOTAL ACRE FEET
1			6382

LOCATION		MAXIMUM DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD		DISCHARGE	GAGE HEIGHT ONLY	PERIOD	
			CFS	DATE			FROM	TO
36 02 48	118 56 54	NW 4 22S 28E			AUG 42-DATE		OCT 62	
							2.00	LOCAL
							-2.00	LOCAL

Station located 3.9 miles southeast of Porterville approximately 2,000 feet downstream from head. This is regulated diversion from Tule River. This station is operated under a cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	C03182	PORTER SLOUGH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	13.4	58.6	6.4	115.0	58.6	40.3	0			0	0	0	1
2	13.8	57.0	6.0	105.2	57.0*	63.0	14.3			0	0	0	2
3	14.1	56.0*	6.0	93.4	56.0	74.6	16.8			0	8.6	0	3
4	14.1	56.0	6.0	88.0	50.4	75.4	16.4			0	22.4	0	4
5	14.1	56.0	5.6	31.6	42.8	74.6	10.2			0	28.0	1.1	5
6	13.8	56.0	5.2	6.4	40.3	74.6	7.8*			0	28.0*	11.8	6
7	12.4	56.0	5.4	3.2	40.3	74.6	9.0			0	25.8	21.0	7
8	12.4	54.0	6.4	3.3	39.8	74.6	7.8			0	25.8	24.0	8
9	12.1	53.0	8.6	4.0	38.3	75.4*	10.6			0	25.8	25.1	9
10	12.4	53.0	8.6	6.0	38.3	77.2	3.1			0	9.0	25.8	10
11	11.4	53.0	8.2	5.8	38.3	76.0	0			0	0	25.8	11
12	11.0	53.0	8.0	5.6	38.3	79.0	0.6			0	0	27.0	12
13	11.0	52.4	7.4	5.6	38.3	79.0	2.8			0	0	27.5	13
14	11.0	52.4	6.4	6.4	39.0	80.0	0			0	2.2	27.5	14
15	11.0	51.4	5.8*	5.0	38.3	80.8	0			15.3	16.6	27.0	15
16	11.0	51.4	5.5	45.6	39.0	82.6*	0			32.2*	17.4	25.8	16
17	29.4	50.6*	6.2	82.6	39.0	82.6	0			37.6	21.9	25.8	17
18	58.6	51.4	6.4	83.4	39.0	82.6	0			40.3	22.4*	26.2	18
19	70.0	51.4	6.6	81.6	39.0	23.4	3.9			39.0	7.0	25.8	19
20	62.0*	51.4	6.6	78.0	39.0	3.3	5.4*			39.8	0	26.2	20
21	57.9	24.8	4.6	68.0	39.8	2.4	0			36.2	0	26.2*	21
22	58.6	10.0	8.0	57.0	40.3	1.8	0			32.8	0	26.2	22
23	60.4	9.4	7.4	57.0	40.3	1.4	0			29.4	0	14.1	23
24	58.6	9.4*	101.4	57.0	41.2*	1.0	0			27.0	0	0.2	24
25	58.6	7.8	104.0	57.0	40.3	0	0			27.5	0	0	25
26	60.4	6.2	106.5*	57.0	40.3	0	0			27.5	0	0	26
27	60.4	6.2	109.0	57.9	40.3	0	0			27.5	0	0	27
28	58.6	6.4	109.0	57.9	40.3	0	0			6.4	0	0	28
29	57.9	6.9	110.0	57.0	0	0	0			0	0	0	29
30	60.4	6.9	110.0	58.6	0	0	0			0	0	0	30
31	60.4		118.0	58.6	0	0	0			0	0	0	31
MEAN	34.6	38.9	35.1	48.4	41.9	44.6	3.6			13.6	8.4	14.7	MEAN
MAX	70.0	50.6	118.0	115.0	58.6	82.6	16.8			40.3	28.0	27.5	MAX
MIN	11.0	6.2	4.6	3.2	38.3	0	0			0	0	0	MIN
AC FT	2125	2317	2160	2975	2325	2742	216			834	518	873	AC FT

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
23.0											17083

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO	
36 03 29	118 59 08	SE31 21S 28E				JAN 42-DATE		1957		0.00 LOCAL
Station located at "E" Lane Bridge, immediately east of Porterville. This is regulated diversion from Tule River. Altitude of gage is approximately 465 feet (from U. S. Geological Survey topographic map). Records furnished by the Tule River Association and reviewed by the Department of Water Resources.										

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1970	00088	PORTER SLOUGH DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	4.8	4.3	4.7	3.1			0	2.7	3.2*	4.0	0		1
2	4.9	4.2	3.1	3.0		0	2.1	5.1	7.1	3.4	0		2
3	5.4	4.2	2.4	2.5		0.1	2.8	3.2	2.3	3.1	0		3
4	6.2	4.2	2.8	2.5		0.3	9.8	3.7	0	3.2	1.4		4
5	6.1	4.2	2.6	2.9		0.4	6.6	3.1	0	3.2	9.3	0	5
6	5.1*	4.4	2.3	3.7		0.7	4.2	3.1	0	2.4	12.3*		6
7	4.7	4.4	2.3	3.1		0.6	5.1	3.4	0	11.9			7
8	4.4	4.3	2.9	2.8		0.7	2.1	3.7	2.1	1.2	12.3	4.1	8
9	4.4	4.3	3.6	3.3		0	5.2	2.9	3.1	2.1	12.7		9
10	4.4	4.3	3.7	4.5		0	3.6	3.6	4.3	2.1	1.2		10
11	4.2	4.3	3.5	4.2		0	3.3	4.1	2.7	2.2	1.1	8.1	11
12	4.1	4.3	3.5	3.9*	N	0		3.1	2.8	2.1	0	9.6	12
13	4.1	4.2	3.6	3.6	O	0		4.1	2.3	2.4	0	11.2	13
14	4.2	4.1	3.8	4.6	0	0		3.4	4.1	2.1	0	8.7*	14
15	4.2	4.0	3.6	4.1	0	0		3.1	4.1	2.1	2.4	4.1*	15
16	4.6	3.9	3.7	3.4	F	0		3.1	4.1	0	3.9	3.6	16
17	5.7	3.9*	3.1	1.2	L	0		2.8	4.2*	4.2	3.9	3.9	17
18	5.2	3.9	3.0	0.7	O	0		1.4	4.1	12.1	5.3*	1.3	18
19	5.4	3.9	3.4	0	W	0		0	4.1	13.1	4.1	13.2	19
20	5.1	3.9	3.1	0	0	0		0	4.1	14.4	1.0	13.3	20
21	4.3	3.1	2.9	0	0	0		0	4.1	14.2*	0	13.1	21
22	4.4	0.8	3.1	0	0	0		0	4.1	14.4	0	12.9	22
23	4.3	2.7	5.6	0	0	0		0	4.3*	13.6	0	9.1	23
24	4.3	5.2	5.9	0	0	0		0	4.0	12.7	0	0.2	24
25	4.4	3.6*	5.2	0	0	0		2.7	3.9	13.2	0	0	25
26	4.4	2.9	4.4	0	0	3.2		0	3.9	13.4	0	0	26
27	4.4*		4.1	0	0	3.6		2.8	4.6	13.1	0	0	27
28	4.3	3.9	4.1	0	0	3.2		3.1	5.1	7.2	0	0	28
29	4.2	4.4	4.1*	0	0	3.2		3.4	4.2	2.4	0	0	29
30	4.3	4.6	4.2	0	0	4.2		3.2	3.7	0	0	0	30
31	4.3		3.7	0	0	0		3.3					31
MEAN	4.4	3.9	3.6	1.8		0.1	2.3	2.5	3.7	6.1	3.1	4.4	MEAN
MAX	5.7	5.2	5.9	4.6		0.7	9.8	4.7	12.1	14.1	12.1	13.3	MAX
MIN	4.1	0.8	2.3	0		0	0	0	0	0	0	0	MIN
AC FT	284	235	224	113			137	174	222	233	128	262	AC FT

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN DISCHARGE	DISCHARGE	MAXIMUM GAGE HT	MO	DAY	TIME	MINIMUM GAGE HT	MO	DAY	TIME	TOTAL ACRE FEET
3.1										2229

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B S W	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
36 04 06	119 01 06	SE 26 21S 27E				JAN 43-DATE			1943		LOCAL

Station located in Porterville 0.5 mile west of Porterville Post Office, approximately 1 1/2 feet downstream from head. This is regulated diversion from Tule River via Porter Slough. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	C03965	VANDALIA DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	5.4				0	3.6		0	4.8	5.9	7.1		1
2	5.9				0	3.6		0	4.8	0.9	7.5		2
3	5.7				0	3.6		0	4.7	0.1	8.0		3
4	5.4				0	3.6		0	5.3	1.6	6.1		4
5	5.4				0	3.6		0	6.7	0.6	6.7		5
6	5.4				0	3.6		0	7.1	2.6*	7.3*		6
7	5.4				0	3.6		0	6.7	7.3	7.6		7
8	0.4				0	3.6		0	5.9	7.5	8.2		8
9	0				0	3.7*		0	5.7	7.8	8.5		9
10	0				0	3.7		0	5.9	8.0	8.2		10
11	0				0	3.5		0	5.9	7.6	8.5		11
12	0	N	N	N	0	3.4	N	0	6.1	7.3	8.8	N	12
13	0	O	O	O	0	3.4	O	0	6.1	6.9	4.2	O	13
14	0				0	3.3		0	6.1	6.6	1.3		14
15	0				0	3.3		0	6.6	6.4	0.5		15
16	0	F	F	F	0	3.3*	F	0	7.1	6.4	0	F	16
17	0	L	L	L	0	3.4	L	0	7.5	6.1	0	L	17
18	0	O	O	O	0	3.4	O	0	7.5	5.9	0	O	18
19	0	W	W	W	0	1.7	W	0	7.6	5.9	0	W	19
20	0				0	0.7		0	7.8	6.1	0		20
21	0				0	0.7		3.2	8.0	6.2	0		21
22	0				0	0.7		4.7	7.8*	6.2	0		22
23	0				0	0.6		4.8	6.7	6.4	0		23
24	0				0	0		4.8	5.9	6.7	0		24
25	0				0	0		4.2	6.1	6.7	0		25
26	0				1.7*	0		4.0	5.9	6.7	0		26
27	0				3.6	0		4.0*	5.9	6.7	0		27
28	0				3.6	0		3.6	5.9	6.9*	0		28
29	0				0	0		3.0	5.9	6.9	0		29
30	0				0	0		3.1	5.9	7.1	0		30
31	0				0	0		4.1		7.1	0		31
MEAN	1.3				0.3	2.2		1.4	6.3	6.0	3.2		MEAN
MAX	5.9				3.6	3.7		4.8	8.0	8.0	8.8		MAX
MIN	0				0	0		0	4.7	0.1	0		MIN
AC FT	77				18	134		86	377	369	196		AC FT

E — ESTIMATED
 NR — NO RECORD
 * — DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # — E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
1.7											1257

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M O B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD	ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE				FROM	TO	
36 03 00	118 58 18	NE 5 22S 28E				1948-DATE			1948		0.00 LOCAL
Station located 2.8 miles southeast of Porterville approximately 1,000 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.											

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE

(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1970	C03960	POLLAR DITCH NEAR PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	76.0	81.1	36.1	70.0	63.8	76.6	77.1	77	73.2*	3.6	4.4	6.2	1
2	105.2	83.0	37.8	70.0	62.2	70.7	105.2	77	6.4	3.3	4.4	6.2	2
3	105.2	83.0	37.4	68.9	61.3	70.7	105.2	31.2	7.6	2.9	9.2	6.2	3
4	103.3	83.0	37.4	67.9	68.4	72.6	105.2	71.7	6.4	2.9	4.1	7.6	4
5	103.3	83.0	33.9	70.5	70.8	72.6	105.2	76.6	7.2	2.7	85.9	7.6	5
6	105.8	83.6	30.2	72.6	80.0	69.4	80.0*	76.6	79.0	32.6	79.5	5.4	6
7	106.3	84.1	29.0	48.6	80.0	66.9	80.0	76.6	79.4	78.4	65.9	5.4	7
8	103.3	79.0	28.3*	11.4	80.0	66.9	80.0	76.6	34.7	81.8	65.6	6.6	8
9	92.0	72.1	27.4	7.2	80.0*	66.9	80.0	6.4	4.2	81.8	66.4	9.6	9
10	85.6	70.0	26.6	7.1	78.4	66.9	48.1	59.0	4.2	80.0	72.1	9.4	10
11	83.6	69.4	25.8	7.0	70.5	65.3	16.9	23	4.1	79.5	77.2	9.4	11
12	83.6	68.4	25.5	6.8*	67.4	22.1	11.4	3.9	4.1	77.2	77.2	9.6	12
13	83.6	67.9	27.0	27.0	67.4	71.5*	19.7	3.9	4.1	73.8*	76.6	9.6	13
14	84.1	66.4	26.0	55.0	66.9	74.4	3.4	3.4	4.1	26.4	38.6	9.6*	14
15	84.1	6.4	27.4	69.4	66.9	74.4	3.6	3.4	4.2	3.6	4.4	4.2	15
16	84.6	65.4	31.8	70.5	70.5	83.0	0	3.3	74.4	3.6	4.4	1.7	16
17	83.6	64.1*	37.8	73.6	72.6	76.6	0	32.6	74.4	3.6	4.4	1.9	17
18	83.0	66.4	37.8	75.0	73.8	96.2	0	70.7	74.4	3.6	4.4	2.0	18
19	81.8	66.4	37.8	72.1	74.4	101.4	80.0	76.6	73.8	3.6	4.6	2.4	19
20	81.1*	66.4	38.2	67.9	73.2	104.0	83.0*	78.4	73.8	11.9	4.8	2.9	20
21	79.5	46.1	19.4	65.4	73.2	100.8	86.9	79.0	73.2	27.4	4.9	7.0	21
22	79.5	35.2	7.6*	63.2	73.2	99.4	80.0	74.4	32.2*	26.6	5.4	6.7	22
23	60.0	35.8	35.2	59.4	73.2	99.4	80.0	79.5	3.6	24.5	5.4	10.4	23
24	79.0	35.8	66.9	52.8	73.8*	95.1	72.6	79.5	4.3	21.8	5.4	10.6	24
25	76.0	35.8	68.4	51.0	76.0	92.0	74.0	29.6	4.2	20.7	5.6	10.8	25
26	75.5	36.1	68.9	51.0	79.0	91.4*	74.0	2.7	3.5	20.7	6.0	10.8	26
27	81.1	35.8	70.0	50.5	79.5	92.0	24.4	2.2	3.5	21.0	6.0	11.1	27
28	84.6	35.2	69.4	50.5	79.5	93.2	2.2	2.1	3.5	21.3*	6.0	10.8	28
29	81.8	34.8	68.9	52.0	73.8	93.6	2.6	1.7	3.5	22.2	6.0	10.8	29
30	77.8	33.9	69.4	54.0	73.8	93.8	2.2	4.1	3.6	17.0	6.0	8.0	30
31	75.5		70.0	60.4		93.8		34.2		4.4	6.2		31
MEAN	86.8	61.1	40.6	52.8	73.0	83.7	73.0	39.7	38.3	26.6	26.8	7.3	MEAN
MAX	108.3	84.1	70.0	79.5	80.0	104.0	105.2	73.5	74.0	81.8	77.2	11.1	MAX
MIN	75.5	33.9	9.8	6.8	61.3	65.9	0	0.7	3.5	2.7	4.4	1.7	MIN
AC. FT	734.0	363	249.4	324.9	405.3	514.8	320.7	244.2	229.0	176.0	164.6	43.4	AC FT

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN DISCHARGE	MAXIMUM				MINIMUM				TOTAL ACRE FEET
4.3	DISCHARGE	GAGE HT	NO	DAY	DISCHARGE	GAGE HT	NO	DAY	356.91

LOCATION			MAXIMUM DISCHARGE		PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC T & R M D B & M	OF RECD		DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			GAGE HT	DATE			FROM	TO		
36 03 18	119 00 54	SW36 218 27E			APR 42-DATE		1942		0.00	LOCAL

Station located 1.0 mile south of Porterville approximately 4.75 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO	STATION NAME
1970	C03925	HUBES-MINER DITCH AT PORTERVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	2.3	0.9	0	4.3		0	12.2	4.2	1.4	1.6	6.7	8.5	1
2	2.2	0.9	0	4.3		0	12.6	4.3	0.6	1.0	7.8	3.8	2
3	2.4	0.9	0	4.1		0	15.9	5.9	0.7	0	8.7	0	3
4	2.6	0.9	0	3.8		0	21.3	5.0	0.7	0	4.0	0	4
5	2.7	0.9	0	3.9		0	23.5	4.2	2.2	0	2.7	0	5
6	2.6	0.9	0	4.9		0	2.5	4.6	4.3	0	5.7*	0	6
7	2.4	0.9	0	3.7		0	0.8	3.6	4.9	0	8.4	0	7
8	2.1	0.8	0	3.1		0	7.1*	3.9	5.0	0	9.4	0.9	8
9	1.8	0.8	0	3.9		0	9.4	4.4	5.3	0	9.5	4.5	9
10	1.9	0.8	0	3.9		0	9.4	3.0	2.6	0	10.2	6.0	10
11	1.5	0.8	0	3.7		0	9.0	0	0.7	0	10.8	5.5	11
12	1.2	0.8	0	2.3*	N	0	12.2	0	2.8	0	10.6	5.6	12
13	1.1*	0.8	0	0	O	1.9	8.2	0	4.6	1.8	10.2	5.9	13
14	1.1	0.8	0	0		1.6	0	0	4.6	5.7	7.0	6.1*	14
15	1.1	0.8	0	0		0	0	0	4.9	6.3	4.5	6.5	15
16	1.1	0.8	0	0	F	0	0	0	5.1*	6.4*	1.3	7.2	16
17	1.0	0.8	0	0	L	0	0	0	5.2	6.3	0	7.2	17
18	1.0	0.8	1.6	0	O	0	0	0	5.3	6.2	1.9	7.3	18
19	0.9	0.8	3.3	0	W	0	0	0	6.4	6.4	5.4	7.6	19
20	0.9	0.8	4.8	0		0	0	3.4	9.0	5.4	5.6	5.3	20
21	0.9	0.8	3.1	0		0	0	3.6*	6.6	0	6.7	1.4	21
22	0.9	0.8	1.4	0		0	0	6.0	8.0	0.4	7.3	0	22
23	0.9	0	3.7	0		0	0	10.0	9.0*	5.1	7.4	3.6	23
24	0.9	0	3.2	0		0	0	10.6	9.0	7.3	7.9	6.2	24
25	0.9	0	3.7	0		0	0	9.4	9.9	7.5	7.4	6.2	25
26	0.9	0	3.9	0		3.2	0	6.9	9.7	7.2	7.1	6.2	26
27	0.9	0	4.2	0		6.7	0	6.1	9.5	6.6	7.5	8.7	27
28	0.9	0	4.2	0		8.0	3.6	2.1	9.4	6.8	6.9	9.1	28
29	0.9	0	4.2*	0		9.1	4.6	1.3	9.5	7.1	7.6	8.6	29
30	0.9	0	4.2	0		9.0*	4.6	1.5	6.2	7.2	8.3	2.6	30
31	0.9	0	4.3	0		9.1		1.5		6.9	9.2		31
MEAN	1.4	0.6	1.6	1.5		1.6	5.2	3.4	6.5	3.5	6.9	4.8	MEAN
MAX	2.7	0.9	4.8	4.9		9.1	23.5	10.8	9.9	7.5	10.8	9.1	MAX
MIN	0.9	0	0	0		0	0	0	0.6	0	0	0	MIN
AC FT	87	36	99	91		96	311	210	326	217	424	293	AC FT

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET
3.0											2182

LOCATION		MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R MDB & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF DATUM
			CFS	GAGE HT	DATE			FROM	TO	
36 03 27	119 02 02	NW35 21S 27E				DEC 42-DATE		1942		0.00 LOCAL

Station located 1.1 miles southwest of Porterville, approximately 3,400 feet downstream from head. This is regulated diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

TABLE B-4 (CONT.)													
DAILY MEAN DISCHARGE													
(IN CUBIC FEET PER SECOND)													
		WATER YEAR		STATION NO.		STATION NAME							
		1977		C0344		WOODS-CENTRAL DITCH NEAR PORTERVILLE							
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	34.4	79.8	72.9	51.5	86.5	135.0			0	149.0*	157.0		1
2	80.4	78.7	72.3	44.0	86.7*	111.0			0	131.0	149.0		2
3	40.0	77.1*	72.9	43.0	47.0	101.0			0	2.2	154.0		3
4	80.4	76.3	72.3	40.0	67.0	101.0			0	0	66.1		4
5	87.3	74.5	72.3	44.0	70.0	91.0			142.0	0	0		5
6	91.6	76.1	71.4	38.9	79.3	77.1			127.0*	11.0			6
7	96.0	76.0	71.3	43.3	73.4	70.0			14.0*	14.2			7
8	80.7	75.0	71.5	46.1	70.0	71.3			131.0*	107.0			8
9	92.0	75.3	69.7	48.3	73.4	71.0*			14.0	147.0	0		9
10	87.5	75.0	65.9	47.7	70.0	70.0			134.0	162.0	0		10
11	92.6	75.4	67.0	47.7	74.0	70.0			132.0	144.0	0		11
12	91.3	75.3	69.1	48.8*	76.1	69.0	N	N	141.0	147.0	0	N	12
12	91.6	74.5	70.2	49.3	76.0	68.0	O	0	131.0	141.0	0	C	13
14	91.6	75.0	73.9	53.6	76.1	74.0			146.0	141.0	0		14
15	92.1	75.0	70.0*	70.2	80.4	82.0			134.0	134.0	0		15
16	92.6	73.9	71.2	85.0	85.9	80.0	I	F	134.0	141.0	0	F	16
17	93.0	74.0*	71.2	85.7	84.0	80.0	I	L	141.0	141.0	0	I	17
18	93.3	76.6	69.7	86.0	94.3	104.0	0	0	142.0	136.0	0	O	18
19	93.7	77.7	68.6	84.1	93.7	115.0	W	W	136.0	142.0	0	W	19
20	94.0*	77.7	67.0	75.3	94.0	124.0			142.0	148.0	0		20
21	90.3	72.3	66.5	69.7	99.1	124.0			151.0	140.0	0		21
22	84.8	71.3	70.2	50.9	101.0	125.0			141.0*	119.0	0		22
23	88.4	75.0	72.9	41.5	120.0	126.0			147.0	130.0	0		23
24	84.1	73.4	71.8	42.5	140.0*	72.0			153.0	142.0	0		24
25	82.0	73.4	72.9	44.0	146.0	0			153.0	154.0	0		25
26	79.8	73.9	67.3	44.0	117.0	0			154.0	157.0	0		26
27	80.4	73.9	83.2	47.7	148.0	0			173.0	162.0	0		27
28	78.2	73.4	65.4	49.3	149.0	0			173.0	161.0	0		28
29	75.5	72.9	67.5*	52.6	0	0			172.0	164.0	0		29
30	78.7	72.9	70.2	54.7	0	0			164.0	163.0	0		30
31	79.5		60.0	58.4	0	0			164.0	156.0	0		31
MEAN	87.0	75.0	69.6	55.2	93.0	72.2			127.0	123.3	16.9		MEAN
MAX	98.5	79.8	73.9	86.0	149.0	137.0			174.0	164.0	157.0		MAX
MIN	34.4	71.3	60.0	40.5	66.0	70.0			0	0	0		MIN
AC FT	73.0	44.0	4280	3396	71.0	4440			7674	700	134		AC FT

E - ESTIMATED
NR - NO RECORD
* - DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
- E AND *

MEAN		MAXIMUM					MINIMUM					TOTAL	
DISCHARGE		DISCHARGE	GAGE HT	NO	DAY	TIME	DISCHARGE	GAGE HT	NO	DAY	TIME	ACRE FEET	
87.0												43,386	

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B A M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
36° 41' 18"	119° 00' 48"	SE30° 21S 27E				CP 42-DAT			1942		LOCAL

Station located 4.5 miles west of Porterville, approximately 100 feet downstream from road. This is regulator diversion from Tule River. This station is operated under cooperative agreement between the Department of Water Resources and the Tule River Association. Records furnished by the Tule River Association and reviewed by the Department of Water Resources. This station is sometimes affected by backwater due to CVP water being delivered from the Friant-Kern Canal to Woods-Central Ditch, approximately 100 feet downstream from station.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
(IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1970	C05150	KERN RIVER NEAR BAKERSFIELD

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1610	1276	1272	583	613	601	1236	700	1096	1312	1560	801	1
2	1626	1173	638	585	604	615	1293	776	1195	1326	1571	823	2
3	1627	1234	612	562	599	608	1312	783	1318	1329	1581	829	3
4	1625	1406	587	519	593	690	1310	809	1426	1348	1637	833	4
5	1650	1332	565	470	597	693	1279	613	1520	1461	1681	787	5
6	1685	1605	549	401	597	638	1253	811	1494	1570	1678	778	6
7	1683	1548	532	378	596	646	1159	808	1748	1581	1704	771	7
8	1669	1564	524	375	594	695	1060	771	1437	1681	1752	780	8
9	1691	1618	516	378	594	693	1143	709	957	1671	1775	766	9
10	1693	1635	496	383	594	704	1184	685	1562	1680	1766	644	10
11	1691	1693	478	384	593	628	1128	710	1494	1663	1749	591	11
12	1690	1686	464	416	594	683	1053	727	1442	1699	1717	506	12
13	1711	1690	448	581	595	743	1050	733	1345	1673	1640	490	13
14	1772	1696	435	603	596	719	997	756	1206	1613	1617	594	14
15	1779	1677	421	604	600	722	962	713	1324	1539	1562	621	15
16	1804	1620	429	1124	609	734	936	760	1392	1510	1490	666	16
17	1803	1575	435	1003	610	764	908	811	1452	1460	1472	672	17
18	1809	1577	437	884	603	842	904	867	1518	1416	1442	580	18
19	1809	1642	437	828	602	889	888	930	1560	1413	1413	477	19
20	1751	1642	545	873	563	921	914	965	1568	1435	1433	475	20
21	1694	1650	569	868	534	964	916	993	1589	1448	1385	485	21
22	1757	1641	579	868	529	933	916	1017	1629	1495	1319	470	22
23	1770	1512	583	860	530	1041	904	1065	1716	1562	1236	499	23
24	1746	666	582	862	529	1118	884	1076	1737	1609	1241	486	24
25	1683	1542	581	863	529	1216	847	1072	1723	1510	1189	465	25
26	1633	1564	581	857	520	1218	770	1042	1606	1513	1158	438	26
27	1537	1573	580	867	532	1164	830	1026	1508	1539	1179	430	27
28	1457	1539	581	859	583	1071	771	1076	1432	1606	1031	321	28
29	1437	1400	583	847	583	1057	745	1043	1384	1619	922	406	29
30	1379	1373	582	829	583	1189	729	993	1348	1611	853	398	30
31	1383		582	812		1214		1029		1594	826		31
MEAN	1667	1521	555	688	580	854	1010	873	1460	1531	1438	599	MEAN
MAX	1809	1696	1272	1124	613	1216	1312	1078	1746	1699	1775	833	MAX.
MIN	1379	666	421	375	520	601	729	685	957	1312	826	398	MIN
AC FT	102494	90523	34122	42299	32206	52489	60101	53698	86904	94112	58421	35667	AC FT

E — ESTIMATED
NR — NO RECORD
+ — DISCHARGE MEASUREMENT OR
OBSERVATION OF NO FLOW
— E AND +

MEAN
DISCHARGE
1068

MAXIMUM				
DISCHARGE	GAGE HT	MO	DAY	TIME

MINIMUM				
DISCHARGE	GAGE HT	MO	DAY	TIME

TOTAL
ACRE FEET
773000

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF. DATUM
			CFS	GAGE NT	DATE				FROM	TO	
35 25 9	118 56 8	SW 2 29S 28E	36000	14.2	11-19-50	1893-DATE					

Also known as "Kern River at First Point". Station located 5.8 miles northeast of Bakersfield. Tabulated discharge is the regulated flow and is computed from noon to noon beginning at noon of day shown. Records furnished by Kern County Land Company. Drainage area is 2,407 square miles.

TABLE B-4 (Cont.)

DAILY MEAN DISCHARGE
 (IN CUBIC FEET PER SECOND)

WATER YEAR	STATION NO.	STATION NAME
1974	047120	BUENA VISTA LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31
MEAN													MEAN
MAX													MAX
MIN													MIN
AC FT													AC FT

INSUFFICIENT DATA TO COMPUTE MEAN

E - ESTIMATED
 NR - NO RECORD
 * - DISCHARGE MEASUREMENT OR
 OBSERVATION OF NO FLOW
 # - E AND *

MEAN	MAXIMUM					MINIMUM					TOTAL
DISCHARGE	DISCHARGE	GAGE HT	MO	DAY	TIME	DISCHARGE	GAGE HT	MO	DAY	TIME	ACRE FEET

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
35 12 21	119 24 35	NW20 31S 24E		2.9	8-14-64		NOV 64-DATE	1964		1.00	LOCAL
Station located at State Highway 119 bridge immediately southwest of Valley Acres, 5.7 miles northeast of Taft. Tributary to Buena Vista Lake. Recorder installed 11-10-64. Altitude of gage is approximately 425 feet (from topographic map).											

TABLE B-5

STREAMFLOW MEASUREMENTS AT MISCELLANEOUS LOCATIONS

Measurements of streamflow at points other than gaging stations or at points where flow has not been computed are listed in the following table.

Stream	Tributary to	Location	Date	Gage Height (feet)	Discharge (cfs)
Fancher Creek at Friant-Kern Canal	Fresno Canal	NW $\frac{1}{4}$, Sec 12, T13S, R22E	1-16-70		215
Holland Creek near Orangedale School	Kings River	SE $\frac{1}{4}$, Sec 23, T13S, R23E	1-16-70		26.3
Mud Creek at Shields Avenue	Gould Canal	SW $\frac{1}{4}$, Sec 19, T13S, R23E	1-16-70		47.9
Owens Creek at McNamara Road	San Joaquin River via Eastside Bypass	NE $\frac{1}{4}$, Sec 20, T8S, R12E	1-16-70		147
San Joaquin River below Chowchilla Bypass (Floatwell #3) (a) (b)	San Joaquin River	NE $\frac{1}{4}$, Sec 25, T13S, R15E	1-26-70	165.80	276
			1-28-70	166.92	655
			2- 3-70	166.40	458
			2- 6-70	168.36	1770
			2-17-70	165.55	182

(a) Recording gage.

(b) Daily mean discharges are available.

TABLE B-6
DIVERSIONS

Monthly and annual acre-feet of water diverted are shown in this Table for the San Joaquin, Stanislaus, Tuolumne, Merced, and Tule Rivers, and Dry Creek, a tributary to the Tuolumne River, for the 1970 water year. Diversion points which divert less than 200 acre-feet annually based on a three-year average are discontinued from the program. This allows for collection and publication of approximately 95 percent of the water diverted for use by measuring and collection of record on about 50 percent of the total diversion points.

Monthly diversion values have been rounded off as follows:

1. Individual diversions - acre-feet

0.0	- 999	nearest	Unit
1,000	- 9,999	"	Ten
10,000	- 99,999	"	Hundred
100,000	- 999,999	"	Thousand

2. Total monthly diversion - cubic feet per second

All values to nearest unit.

3. Monthly use in percent

All values to nearest tenth.

Data received from outside agencies are published as received and are not necessarily rounded to the criteria used by the Department of Water Resources.

TABLE B-6
DIVERSIONS - SAN JOAQUIN RIVER
(Vernalis to Fremont Ford Bridge)
(October 1969 through September 1970)

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET													TOTAL DIVERSION OCT.-SEPT. ACRE- FEET
			OCT	NOV	DEC.	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG.	SEPT.		
--DURHAM FERRY BRIDGE--	76.1															
--GAGING STATION - SAN JOAQUIN RIVER NEAR VERNALIS--	76.1															
Moresco Brothers	78.4 R	1-14 1-24						265	844	772	582	635	336	111	3545	
Cruze, Amoral and Gilmeister	79.4 R	1-20							1	58	74	110	81	40	364	
--STANISLAUS RIVER--	79.7 F															
Faith Ranch	79.8 F	1-16	34					81	173	137	185	180	192	120	1102	
W. C. Blewett Estate	80.7 L	1-12							105	64	87	203	276	124	859	
W. C. Blewett Estate	81.8 L	2-12 1-14	197					312	564	509	1210	1060	1250	612	5714	
--GAGING STATION - SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE--	81.85															
Blewett Mutual Water Company	81.95L	1-10 2-12 1-14						109	1060	1040	825	1000	982	517	5533	
El Solyo Water District	82.0 L	1-10 1-16 3-18	167				73	410	2750	2530	1840	3100	2480	716	14070	
--HETCH HETCHY AQUEDUCT CROSSING--	82.65															
El Solyo Ranch	82.9 L	1-16								85	224	250	116		675	
El Solyo Ranch	83.5 L	1-12							46	49	168	222	206	166	857	
El Solyo Ranch	83.7 L	1-12							157	204	220	217	95		898	
Faith Ranch	84.4 R	1-16 1-20	383	51	60	6	9	268	823	1140	1160	834	671	740	6145	
--GAGING STATION - SAN JOAQUIN RIVER AT CALDWELL--	91.0 L															
--TUOLUMNE RIVER--	91.0 R															
--WEST STANISLAUS IRRIGATION DISTRICT INTAKE CANAL--	91.8 L															
West Stanislaus Irrigation District	91.8 L	1-12 1-24 6-26	1450	424	572	185	596	4880	11350	12430	9730	8800	8480	5430	64350	
Fred Lara #1	* (0.65)	1-14	19		1		127	1	147	227	360	429	107	233	1651	
E. E. Hagemann Ranch #1	* (0.78)	3-16	18					268	727	557	705	793	622	500	4190	
E. E. Hagemann Ranch #2	* (1.18)	1-14 1-16						72	858	499	457	879	441	428	3634	
Fred Lara #2	* (2.25)	1-16	9	2	8				26	20	19	8			92	
E. E. Hagemann Ranch #3	* (2.38)	2-16						20	316	95	402	452	409	246	1960	
John and Robert Bogetti	92.1 P	1-12	60								237	323			620	
John and Robert Bogetti	93.1 R	1-10 1-12 1-14	120						493	249	500	1338	948	823	4471	
George Covert	94.1 L	1- 3 1- 6						NO DIVERSION								
Rancho Dos Rios	94.7 R	1-12	100	4	3	1	4	115	152	167	208	369	404	195	1722	
E. L. Brazil	95.5 P	1-16	11						27	136	25	333	255	96	883	
Island Dairy	96.0 L	1-18	110	3	1	4		314	262	165	432	791	636	365	3083	
--LAIRD SLOUGH BRIDGE--	96.05															
Rancho El Pescadero	98.9 L	1-18									4	304	141	12	461	
--GAGING STATION - SAN JOAQUIN RIVER AT PATTERSON BRIDGE--	104.4 L															
Patterson Water District	104.4 L	1-14 2-18 3-20 1-36	38				174	127	9460	6970	7850	9360	8720	4710	47410	
Chase Brothers	104.5 R	1-18	181					6	247	260	653	342	387	353	2429	
--PATTERSON BRIDGE--	104.6															
Chase Brothers	106.5 R	1-12	330						109	455	625	303	532	528	2882	
Tony Spinelli	109.1 L	1-12	21					12	31	28	42	36	16	57	243	
Twin Oaks Irrigation Company	109.8 L	1-12 1-16 1-18 1-20	200					362	1530	1540	1260	2320	1640	704	9556	
Francisco S. Mendonca	110.8 R	1- 8										99	35	36	170	
L. A. Thompson	112.55P	1-18						27	59	31	96	201	167	106	687	
D. P. Lemos	113.4 P	1-12	1			23	16	38	31	128	95	153	130	113	728	

TABLE B-6 (Cont.)

PIPERLINE - SAN JOAQUIN RIVER
 Vernalis to Fremont Ford Bridge
 October 1963 through September 1964

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT ACRE-Feet
			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG.	SEPT	
--GAGING STATION - SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE--	113.4														
D. R. Lemos	114.63R	1-8								64	54	72		24	214
Arnold and Ben Souza	114.75R	2-10	61					14	186	88	84	48	1	981	248
--ORESTIMBA CREEK--	115.2 L														
Roy F. Crow	115.8 L	1-10	71					174	14	192	247	74			124
L. B. Crow	116.05L	1-14	21					1	11	24	141	244	21	74	614
Katherine Greer	c 116.15R	1-8	21					2		49	6	14	4	41	148
Katherine Greer	c 116.5 R	1-12							221	317	162	236	346	346	1644
Manuel A. Serpa	121.3 R	1-10 1-18	87					1	141	110	431	692	11	567	6624
--MERCED RIVER SLOUGH--	122.2 R														
Stevinson Corporation	122.61L	1-16						72	11	274	124	179	91	148	946
--GAGING STATION - SAN JOAQUIN RIVER NEAR NEWMAN--	123.7														
--MERCED RIVER--	123.75R														
Stevinson Corporation	129.1 R	1-16	124					44	1	224	274	38	24	24	824
--GAGING STATION - SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE--	129.5														
<u>VERNALIS TO FREMONT FORD BRIDGE</u>															
Total			4194	464	648	214	993	364	1441	3244	14	144	1244	1948	22280
Average cubic feet per second			67	7	11	4	18	13	67	26	1	41	114	131	248
Monthly use in percent of seasonal			2.7	0.2	0.3	0.1	0.7	4.1	16.4	16	17	16.6	16.7	97	

a Includes an undetermined amount of water returned to river by spill.

b Formerly listed as T. J. Henderson.

c Formerly listed as John W. Greer.

* West of San Joaquin Irrigation District Intake Canal joins the San Joaquin River at mile 91.5L. Distances from the river and bank location of diversion are shown in parentheses.

TABLE B-6 (Cont.)
 DIVERSIONS - SAN JOAQUIN RIVER
 (Fremont Ford Bridge to Gravelly Ford)
 October 1969 through September 1970

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT ACRE-FEET
			OCT	NOV	DEC.	JAN	FEB	MAR	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
--GAGING STATION - SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE--	129.7														
--GAGING STATION - SAN JOAQUIN RIVER NEAR STEVENSON--	116.7														
--GAGING STATION - SAN JOAQUIN RIVER NEAR DOS PALOS--	166.0														
San Luis Canal Company	166.6 L	Gravity	10834	6960	2674		3713	11445	17131	19873	25176	28423	26416	18527	171172
--FIREBAUGH BRIDGE--	198.4														
--GAGING STATION - SAN JOAQUIN RIVER NEAR MENDOTA--															
--MENDOTA DAM--	208.8 L														
Central California Irrigation District	208.8 L	Gravity	17217	3943	432		10825	38445	57237	61824	66866	78277	75862	38555	449483
--FRESNO SLOUGH--	b 209.0 L														
--DELTA-MENDOTA CANAL--	(0.2L)														
Firebaugh Canal Company	b (0.4L)		1849	1593	60	1301	4913	4074	9657	4205	5904	6311	7044	4674	51595
M. L. Dudley	b (3.4L)							151	375	315	488	482	222	12	2045
State of California Mendota Waterfowl Management	b (6.45-8.20)		4370	1954	224				1099	1406	1632	3088	2521	4413	20707
Fresno Slough Water District	b (9.20-10.50)		30				315	457	426	403	426	672	510	169	3508
--JAMES BYPASS--	(11.80R)														
Traction Ranch	d (0.75)		325	589	8			458	571	708	738	1226	1410	347	6380
Reclamation District 1606	d (1.50)							26	12	26	61	91	32	10	258
James Irrigation District	d (4.4)		401		155		4657	4576	4171	6506	7857	9148	6996	1258	45729
Tranquillity Irrigation District	b(12.00-13.75)		226		258		2830	3679	2099	3374	4866	6694	4715	1351	30092
Melvin D. Hughes	b (12.20)							22							22
--LONE WILLOW SLOUGH--	219.8 R														
Columbia Canal Company	219.8 R		2771	960	6	377	2801	5784	6173	7154	8305	9178	9082	6385	58996
State Center Land Company	e 1-6		278	147	10									171	606
M. Beck	f 1-8			36	6										42
Tulle Gun Club	g 1-8			24	2										26
Westlands Water District			417					635	2279	1686	2463	2444	2785	678	14387
Grasslands			20091	8033										9219	37343
J. W. Wilson									99	36	58	192	125		560
Laguna Water District											46	125	125	104	400
Pacheco Water District										800	1200	1700	745		4445
--GAGING STATION - SAN JOAQUIN RIVER AT WHITEHOUSE--	219.8 R														
--GRAVELLY FORD CANAL--	232.8 R														
FREMONT FORD BRIDGE TO GRAVELLY FORD															
Total			58869	24207	3627	1678	30054	69902	161324	108318	126591	148551	138592	85878	897796
Average cubic feet per second			957	407	62	27	541	1137	1703	1762	2127	2416	2254	1443	1240
Monthly use in percent of seasonal			6.6	2.7	0.4	0.2	3.3	7.8	11.5	12.1	14.1	16.1	15.4	9.6	

Records for this reach furnished by the U. S. Bureau of Reclamation and the Contracting Entities, and include operational spill. Acre-foot values are published as received and not rounded to the criteria used by the Department of Water Resources.

- a Total does not include Central California Irrigation District deliveries from the Delta-Mendota Canal.
 b Plant is located on Fresno Slough which diverts from the San Joaquin River at mile 209.0L. Distance from the San Joaquin River and bank of slough on which diversion is located are shown in parentheses.
 c Total does not include Firebaugh Canal Company deliveries from the Delta-Mendota Canal.
 d Plant is located on James Bypass which diverts from Fresno Slough at mile 11.80R. Distance from Fresno Slough and bank location of diversion are shown in parentheses.
 e One 6-inch pump located on arm of slough at SW corner S. 12, T. 14S., R. 15 E.
 f One 8-inch pump located on arm of slough 1400 feet S. of NE corner, S. 24, T. 14 S., R. 15 E.
 g One 8-inch pump located on arm of slough adjacent to M. Beck.
 h Does not include 482 acre-feet delivered from the Delta-Mendota Canal via San Luis Water District to Westlands Water District.

TABLE B-1 (Cont.)
 FRIANT DAM - JOAQUIN RIVER
 DIVERSION OF FLOW FROM THE
 JOAQUIN RIVER TO THE FRIANT DAM
 FOR IRRIGATION PURPOSES

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT - SEPT ACRE- FEET
			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
Carl H. ...	233.03R	24 x 6	...	...	...				4			4	...	...	...
United Packing ...	233.03L	14-12	4								114	...	...		...
--STANIS BRIDGE--	236.26														
--S. F. HIGHWAY 40 BRIDGE--	247.33														
--SANTA FE RAILROAD BRIDGE--	244.21														
Miller Brothers	251.46L	14 x 6		...	...			...	...	4	4	4	...		42
Sycamore Island Stock Ranch	251.34R	14 x 6								...	...	...	...	...	24
Sycamore Island Stock Ranch 2	251.72L	14 x 6							...	...	...	...	...	...	22
Under Span - River Ranch 1	277.21L	14-12	...	...				...	...	...	...	...	...	...	104
Under Span - River Ranch 2	277.71L	14-12						...	...	...	...	...	...	...	104
James Sims	278.81	14 x 6 14 x 6	4						...	...	...	...	14	...	4
--STATE HIGHWAY 41 BRIDGE	274.33														
W. E. Roberts 2	278.90	14-12	11	...				...	...	144	164	124	...	14	1036
T. E. Cobb	279.39R	24 x 6						...	...	...	...	...	...	...	24
--OLD LANES BRIDGE--	279.78														
J. E. Cobb 3	261.40R	14 x 6	24					...	...	124	1	...	...	...	...
B. C. Arnold	261.53R	14 x 4 14 x 6	20	...				...	...	...	...	...	...	4	...
Wane M. Folsom	261.70L	14 x 6						2	...	34	1	...	1	...	14
E. L. Bank, Jr.	262.32L	14 x 6						...	...	...	...	...	41	...	124
E. L. Bank, Jr. 2	262.34L	14 x 6						...	...	...	...	...	...	...	...
W. H. Rohde	262.66L	14 x 6						...	...	...	...	...	...	...	...
H. K. Jensen	263.76R	14 x 6	41	...				...	...	...	...	...	...	...	...
W. F. Ball 2	264.41	14 x 6						...	...	...	...	...	...	...	...
Ike D. Ball	264.60R	14 x 6	...	...				...	...	...	...	...	...	...	...
W. F. Ball 1	264.63L	14 x 4 14 x 6	4	...				...	...	...	...	...	...	...	44
Gravelly Ford	267.70L	14 x 6	...	...				...	...	...	...	...	...	...	...
--DAMING STATION - SAN JOAQUIN RIVER BELOW FRIANT--	264.10L														
--FRIANT BRIDGE--	268.00														
--COTTONWOOD CREEK--	263.10R														
--FRIANT DAM--	264.61														
GRAVELLY FORD TO FRIANT DAM															
Total			...	...				...	...	...	...	...	...	...	...
Average cubic feet per second			...	...				...	...	...	...	...	...	...	...
Monthly use in percent of season			...	...				...	...	...	...	...	...	...	...

a Replaces a 6" unit.

TABLE B-6 (Cont.)
 DIVERSIONS - STANISLAUS RIVER
 October 1969 through September 1970

WATER USER	MILE AND BANK ABOUT MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT ACRE- FEET
			OCT.	NOV	DEC.	JAN	FEB	MAR.	APR	MAY	JUNE	JULY	AUG.	SEPT	
Moresco Brothers	1.9 R	1-16							64	67	18	48	42	11	250
J. C. Anyal	2.4 R	1-16	68						44	532	206	295	457	394	a 1996
Faith Ranch	3.4 L	2-12 1-16	148	4			32	330	537	696	546	529	574	500	3896
Reclamation District 2064	4.0 R	1-14 1-16 2-20	325		6			417	1450	1290	1950	1860	1980	1180	10460
Reclamation District 2075	4.05R	2-16 1-20	477	78	24	24		725	2500	2590	2540	2850	2990	2360	17160
D. F. Koetitz	4.7 L	1-20	46						202	115	324	360	222	205	1474
E. T. Mape	4.75L	1-20			75					141		171	167	175	729
Henry Pelucca	5.5 L	1-16					2		109	110	105	121	105	102	654
Bernard Wend	6.4 L	1-14	68					85	124	110	93	127	126	183	a 910
D. J. Macedo	8.4 R	1-16	68					3	421	441	211	487	493	458	2582
N. E. Cannon	H.7 R	1-10	43					34	302	333	346	336	274	182	1850
--GAGING STATION - STANISLAUS RIVER AT KOETITZ RANCH--	9.35														
D. F. Koetitz	9.4 L	1-12	8	3	1		4	143	349	366	204	307	321	387	2093
John L. Hertle	9.8 L	1-10							34	62	38	63	79	31	307
Joe Lourence	10.0 R	1-16	47	17								132	107	11	a 314
Joe Lourence	10.5 R	1-16	54	8	5					125	96	86	200	152	726
--GAGING STATION - STANISLAUS RIVER AT RIFON--	15.7 L														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	15.7														
--U. S. HIGHWAY 99 BRIDGE--	15.7														
A. Girardi	17.7 L	1-16						3	280	110	177	341	274	97	a 1282
Estate of Robert Paul Barton and Alice Lee Barton	19.0 R	1-14	8					106	55	210	217	298	352	157	a 1403
Libby, McNeill and Libby	20.9 R	1-14						54	120	436	323	457	260	259	1909
--MODESTO-ESCALON HIGHWAY BRIDGE--	29.6														
--SANTA FE RAILROAD BRIDGE--	31.4														
Oakdale Irrigation District b (Crawford Pump)	37.7 L	1-14						15	124	64	188	157	176	22	a 746
Oakdale Irrigation District b (Brady Pump)	39.1 L	1-12					1	40	117	98	132	222	161	48	819
--OAKDALE-STOCKTON HIGHWAY BRIDGE--	41.2														
--SOUTHERN PACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)--	41.2														
--GAGING STATION - STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE--	47.0														
--KNIGHTS FERRY BRIDGE--	54.5														
<u>STANISLAUS RIVER</u>															
Total			1361	110	111	24	39	1955	4832	7896	7714	9247	9354	6914	51569
Average out, feet per second			22	4	2	0	1	32	115	128	130	150	152	116	71
Monthly use in percent of seasonal			2.6	0.2	0.2	0.1	0.1	3.8	13.3	15.3	15.0	17.9	18.1	13.4	

a Includes an undetermined amount of water returned to river by spill.

b Oakdale Irrigation District for season of 1970 maintained plants at miles 37.7L and 39.1L to supplement district gravity supply.

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT ACRE-FEET
			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
E. T. Mape	1.3 R	2-14	41					8	444		677	52	15	572	474
John and Robert Bogetti	1.9 L	3-12	52					1	11				4	22	184
John and Robert Bogetti	2.9 L	1-10 1-12						118			108	190	381	189	
--GAGING STATION - TUOLUMNE RIVER AT TUOLUMNE CITY (SHILOH BRIDGE)--	3.35														
Bancroft Fruit Farms	3.3 R	1-10							4				29	29	
Della Battestin	3.4 L	1-16						10	11						
Western Farms	6.3 L	1-16						14	1	1	1	14	4		
Eugene Boone, Galen Hartwich, and Ted Gonzales	7.1 R	1-10						1		4	46	46	83	26	316
Elmer Hyer	8.4 R	1-10							4				74	87	368
James A. McCleskey	9.4 L	1-16						2	3	36	466	10	4	2	14
James A. McCleskey	9.4 R	1-10							184	216	12	161	17	884	
Homer Couchman	10.2 R	1-14	16					141	74	9	15	183	95	777	
--CARPENTER ROAD BRIDGE--	12.9														
--U. S. HIGHWAY 99 FREEWAY BRIDGE--	15.5														
--SEVENTH STREET BRIDGE--	15.7														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	15.8														
--U. S. HIGHWAY 99 BRIDGE--	16.0														
--GAGING STATION - TUOLUMNE RIVER AT MODESTO--	16.0														
--DRY CREEK--	16.5 R														
--EAST MODESTO BRIDGE--	19.3														
Jack Gardella	22.3 R	1-10						2	1	1	13	55	68	47	
--SANTA FE RAILROAD BRIDGE--	21.6														
--SANTA FE ROAD BRIDGE--	21.6														
--GEER AVENUE BRIDGE--	26.7														
Michel Investment Company	28.8 R	1-10						2			1	10			
Firpo Ranch	30.2 R	1-10			1			1			41	46	4	44	32
--SOUTHERN PACIFIC RAILROAD BRIDGE (OAKDALE BRANCH)--	31.5														
--GAGING STATION - TUOLUMNE RIVER AT HICKMAN BRIDGE--	31.6														
Iva M. Ketcham	39.4 L	1-10							2	1	1	46	13		674
Westley N. Sawyer	39.6 L	1-10							19	78	1	1	17		74
--ROBERTS FERRY BRIDGE--	39.9														
Westley N. Sawyer	41.6 L	1-14							1	1	1	1			67
Zaner Brothers	45.7 L	1-10							1		1	1	1	4	4
Dolling Brothers	47.3 R	1-10	21						1		1	1	1		47
--STATE HIGHWAY 132 BRIDGE--	47.4														
--GAGING STATION - TUOLUMNE RIVER AT LA GRANGE--	50.5														
<u>TUOLUMNE RIVER</u>															
Total									142	11	1	1	1	1	1
Average cubic feet per second									1.1	1.1	1.1	1.1	1.1	1.1	1.1
Monthly use in percent of seasonal									1.1	1.1	1.1	1.1	1.1	1.1	1.1

a Formerly listed as Curtner Zanker.

TABLE B-6 (Cont.)
 DIVERSIONS - DRY CREEK
 October 1969 through September 1970

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET											TOTAL DIVERSION OCT-SEPT ACRE-FEET	
			OCT	NOV	DEC.	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
--MUD CREEK BRIDGE--	1.1														
--STATE HIGHWAY 152 BRIDGE (YOSEMITE BRIDGE)--	1.0														
--LA LOMA BRIDGE--	1.2														
--EL VISTA AVENUE BRIDGE--	2.4														
--AGING STATION - DRY CREEK HEAD MOISTEN--	5.4 L														
--LAUS ROAD BRIDGE--	1.4														
--MATA FE RAILROAD BRIDGE--	6.4														
--MACH STREET BRIDGE--	7.2														
--WELLSFORD ROAD BRIDGE--	8.7														
--ALREPS ROAD BRIDGE--	11.0														
--MOESTO IRRIGATION DISTRICT CANAL CROSSING--	11.1														
Edward Johnson	1.4	1-6								2	13	62	45	6	128
Edward Johnson	12.7	1-6										41	56	11	108
Lower River Sonora Company	14.7	1-10	41					18	24	1	44	24	25	32	209
--JARDALE-WATFORD HIGHWAY BRIDGE--	17.4														
DRY CREEK															
Total			41					18	24	1	1	127	126	49	445
Average cul. div. - 1			1									2	2	1	1
Monthly use - 1			4.2					4.1	7.4	0.7	1.1	28.5	28.3	11.0	

a Formerly listed as Joe Fagundes.

TABLE B-6
DIVERSIONS FROM THE MERCED RIVER
TO THE SAN JOAQUIN VALLEY

WATER USER	MILE AND BANK ABOVE MOUTH	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT ACRE- FEET
			OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
--MILL PERRY BRIDGE--															
Stevenson Water District	1.7 R	1-2						4							22
Stevenson Water District	1.3 L	1-2													
Stevenson Water District	1.6 R	1-10	4				12		1	23	41	441	10	4	1
T. E. Thomas	4.3 L	1-10							12					13	28
--GAGING STATION - MERCED RIVER NEAR STEVENSON--	4.6														
Edward DeAngelis	4.8 L	1-10						14				4	1		14
Stevenson Water District	4.1 L	1-2	12									4	2		
Stevenson Water District	4.7 L	1-2						4			11	23	4		74
Manuel Clementino	4.8 L	1-12										144			44
Manuel Clementino	4.9 L	1-12	4												4
Samuel B. McCallagh	4.4 L	1-8					4	22			44	44	4		2
Bozza Brothers	4.6 L	1-12	2							4		16			18
Mrs. J. B. Silva, E. and J. Gallo Winery Ranch, L. Alves and A. Marino	10.7 L	1-10	30	1	142			4	4	1	2	11	4	1	114
Manuel Freitas	1.3 L	1-12						12	1		12	11			14
R. E. Pruss, and John Vieira	1.6 L	1-8 1-12	11					8	12	44	41	4	12		
E. and J. Gallo Winery Ranch	1.7 L	1-10						12	1	2		11			16
--MILLIKEN BRIDGE--	11.6														
E. and J. Gallo Winery Ranch	12.5 R														
E. and J. Gallo Winery Ranch	12.85L	1-12						12	14		11	7	11		4
J. M. Souza	14.5 L														
E. and J. Gallo Winery Ranch	16.5 L	1-14	12					1	14	24	4	74			20
J. E. Gallo	20.4 L	1-8	12			2		2	62	12	14	12	44		4
--U. S. HIGHWAY 99 BRIDGE--	21.04														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	21.0														
Gallo Cattle Company	22.2 R	1-8 1-10		12		4	2	12	12	141	11	21	26		143
Gallo Cattle Company	22.8 R	1-10		44							1	148	19		4
Merced River Farms Association	26.3 R	1-8							4			4		1	1
--SANTA FE RAILROAD BRIDGE--	27.5														
--SANTA FE AVENUE BRIDGE--	2.1														
W. C. Magnuson	27.5 R	1-12						2					1	14	14
--GAGING STATION - MERCED RIVER AT CRESSEY--	27.5														
--CRESSEY BRIDGE--	27.5														
Manuel Silva	29.3 R	1-10									4	1			
Manuel Silva	3.35R	1-2										1			4
Rancho Con Valor	31.1 L	1-8 1-14							1	14	2	4		4	2
Manuel Silva	31.4 R	1-1										21		4	46
W. Hilarides	32.2 L	1-12													
--SHAFFER BRIDGE--	32.5														
Harry P. Schmidt and Sons	33.1 R	1-10							14		1				20
W. F. Bettencourt, P. Hilarides, and Cowell Line and Cement Co.	36.9 L	Gravit	112		10		14		112	121	1	141	14	4	444
Amsterdam Orchards Incorporated	39.1 L	1-14										4		4	4
Ratzlaff Brothers	41.2 L	1-2 1-4								4	4				
--COX FERRY BRIDGE--	42.1														
Cowell Ditch	4.3 R	Gravit	242		1			12	1	1	1	1	1		
--GAGING STATION - MERCED RIVER BELOW SNELLING--	46.2														
Forbeson Ditch	46.3 L	Gravit	120				2		12	1	1	1	1	1	1
--SNELLING BRIDGE--	46.4														
Cox and Dale Ditch	47.5 R	Gravit	44			2	1	1	1	4	1	1		1	1
Ruddie Ditch	47.9 R	Gravit	11			1	4		4		1	1	1	1	1
Canevar Ditch	48.3 R	Gravit	11									4			
<u>MERCED RIVER</u>															
Total			410	444	11	26	24	1	1	1	1	1	1		42
Average cubic feet per second			24	27	1	16	15	1	1	1	1	1	1		26
Monthly use in percent of seasonal			10	11	3	7	6	3	3	3	3	3	3		10

a. Formerly listed as Maria De Angelis.

1. For details see Appendix A, Table A-1.

TABLE E-6 (Cont.)
DIVERSIONS - TULE RIVER
October 1969 through September 1970

WATER USER	MILE AND BANK DOWN SLOPE DAM	NUMBER AND SIZE OF PUMP IN INCHES	MONTHLY DIVERSION IN ACRE - FEET												TOTAL DIVERSION OCT-SEPT ACRE- FEET
			OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
--DAM--	0.0														
--GAGING STATION - TULE RIVER BELOW SUCCESS DAM--	0.0														
Campbell-Moreland Ditch	2.4 L	Gravity	1025	100	294	190	2	10	617	856	635	866	705	613	6581
--PORTER SLOUGH--	2.4 R														
--GAGING STATION - PORTER SLOUGH AT PORTERVILLE (B LANE BRIDGE)--	a (2.4)														
--PIONEER SPILL--	a (3.7R)														
Porter Slough Ditch	a (4.5R)	Gravity	284	230	224	113		10	10	154	224	373	190	292	2229
--NEWCOMB AVENUE BRIDGE--	a (6.1)														
Jandalia Ditch	3.1 L	Gravity	57				18	134		86	377	369	196		1257
--SANTA FE RAILROAD BRIDGE--	5.1														
Biglar Ditch	5.0 L	Gravity	340	3637	2445	3249	4053	5148	3207	2442	2280	1760	1646	434	35690
--MAIN STREET BRIDGE--	5.9														
--SOUTHERN PACIFIC RAILROAD BRIDGE--	6.0														
Woods-Miner Ditch	6.4 R	Gravity	87	36	99	91		96	311	210	328	217	424	283	2182
--STATE HIGHWAY 65 BRIDGE--	6.6														
--LIVE AVENUE BRIDGE--	9.4														
--PIANT-KERN CANAL CROSSING--	10.0														
Woods-Central Ditch	11.0 L	Gravity	203	4465	4280	5396	5198	4440			7604	7560	1040		43386
--GAGING STATION - TULE RIVER BELOW PORTERVILLE--	11.0														
--OTTLE BRIDGE--	14.4														
TULE RIVER															
Total			12146	8564	7391	7039	9321	10160	4272	3746	11446	11107	4201	1624	91325
Average cfs			146	144	120	114	166	165	72	61	192	162	68	31	126
Monthly av.			13.4	9.4	8.1	7.7	10.2	11.1	4.7	4.1	12.5	12.2	4.6	2.0	

For this summary, the Tule River Association. Acre-feet values are published as received and not rounded to the criteria used by the Department of Water Resources.

* Figure in parentheses indicates distance along Porter Slough from Tule River.

TABLE B-7
DIVERSIONS AND ACREAGE IRRIGATED - EAST SIDE CANALS AND IRRIGATION DISTRICTS
October 1969 through September 1970

WATER USER	DIVERSION													ACREAGE IRRIGATED	
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	TOTAL	GENERAL	RICE
<u>Frant-Kern Canal</u>															
				<u>San Joaquin River^a</u>											
Total acre-feet diverted	59255	70527	38674	31603	113815	68335	94163	96333	518224	189968	207474	41845	121641	Not Available	
Average cubic feet per second	68	84	62	514	241	1111	1083	1567	2659	3075	3362	1375	1671		
Monthly use in percent of seasonal	4.9	4.2	3.2	2.6	11.0	5.6	7.8	8.7	13.1	15.6	17.2	6.8			
<u>Madera Canal</u>															
Total acre-feet diverted	20508	5885	3011	648	3003	16635	37912	41086	47462	56624	24139	891	298387	Not Available	
Average cubic feet per second	333	99	44	112	541	271	637	608	92	922	354	13	412		
Monthly use in percent of seasonal	6.9	2.0	1.7	2.3	10.7	5.8	12.7	13.8	18.3	19.9	8.1	0.3			
<u>Merced Irrigation District</u>															
				<u>Merced River</u>											
Main Canal	28455	7393	3545	1154	795	16761	84046	86223	92572	105459	97293	67502	b 591250		
Southside Canal	1942	89	48	27	413	2745	3713	3826	4481	3907	3328	24572			
Total acre-feet diverted	30397	7482	3593	1181	795	17174	86893	89936	96989	109480	101200	70839	c 615622	10454	5729
Average cubic feet per second	494	126	58	19	14	279	1460	1463	1620	1788	1648	1190	851		
Monthly use in percent of seasonal	4.9	1.2	0.6	0.2	0.3	2.8	14.3	14.6	15.7	17.9	16.8	11.7			
<u>Tulare Irrigation District</u>															
				<u>Tulare River</u>											
Total acre-feet diverted	17020	250	36800	3310	288	13960	96930	82040	46505	92800	104500	4261	d 618486	172589	
Average cubic feet per second	277	4	54	54	5	552	1803	1334	1614	1511	1699	884	854		
Monthly use in percent of seasonal	2.8	0	5.9	0.5	0.1	5.5	16.0	13.3	15.5	15.0	16.9	8.5			
<u>Modesto Irrigation District</u>															
Total acre-feet diverted	10205	548	24	42	2	38006	49640	49119	54339	42146	43409	35936	f 326516	62004	538
Average cubic feet per second	166	8	1	1	0	618	834	799	965	685	708	604	451		
Monthly use in percent of seasonal	3.1	0.2	0	0	0	11.6	15.2	15.1	17.6	12.9	13.3	11.7			
<u>Waterford Irrigation District</u>															
Total acre-feet diverted	2091	1	0	0	1	2144	7350	7461	7571	7934	6441	164	45756	7308	
Average cubic feet per second	34	0	0	0	0	35	124	121	127	123	107	67	63		
Monthly use in percent of seasonal	4.6	0	0	0	0	4.7	16.7	16.3	16.7	16.5	14.1	11.3			
<u>Oakdale Irrigation District</u>															
				<u>Stanislaus River</u>											
Northside Canal	7906	0	0	0	0	2959	19438	21917	22209	19913	19525	14188	128025	27085	3696
Southside Canal	11589	0	0	0	0	5021	28139	31644	31146	24436	26431	22437	188686	35013	506
Total acre-feet diverted	18495	0	0	0	0	8780	47577	53611	53355	44349	45956	36618	316711	55098	4204
Average cubic feet per second	317	0	0	0	0	143	790	872	897	693	780	617	437		
Monthly use in percent of seasonal	6.2	0	0	0	0	2.9	15.0	16.4	16.8	15.4	15.1	11.6			
<u>South San Joaquin Irrigation District</u>															
Total acre-feet diverted	6326	0	0	0	0	7116	46286	49191	47019	47477	48934	24069	278893	64540	253
Average cubic feet per second	103	0	0	0	0	116	776	800	790	780	796	438	385		
Monthly use in percent of seasonal	2.3	0	0	0	0	2.6	16.6	17.6	16.9	17.2	17.5	9.3			

a Data for Madera and Friant-Kern Canals furnished by U. S. Bureau of Reclamation. All other data furnished by individual irrigation districts and published as received.
b An additional 99,008 acre-feet of water was pumped from wells.
c Of this acreage, 3,916 were double cropped. Does not include an undetermined amount of riparian water users' acreage.
d An additional 167,960 acre-feet of water was pumped from wells.
e Of this acreage, 26,759 were double cropped.
f An additional 59,414 acre-feet of water was pumped from wells.
g Of this acreage, 4,961 were double cropped.

h An additional 84,000 acre-feet of water was pumped from wells.
i Of this acreage, 1,000 were double cropped.
j Of this acreage, 373 were double cropped.
k Of this acreage, 436 were double cropped.
m This acreage also received 4,124 acre-feet of water from wells and controlled drainage.
n This acreage also received an undetermined amount of well water, and an undetermined amount of controlled drainage water from Oakdale Irrigation District. Of this acreage, 1,277 were double cropped.

TABLE B-8
DELIVERIES FROM CENTRAL VALLEY PROJECT CANALS
October 1969 through September 1970

WATER USER	MILE POST FROM CANAL HEAD		MONTHLY DELIVERIES IN ACRE-FEET												TOTAL
	FROM	TO	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
Delta-Mendota Canal															
Plain View Water District	4.22	20.96	539	59	0	0	284	1192	2752	3876	3379	3879	3545	2055	21560
Asbury Contractors Incorporated	7.67		9	3	0	0	0	0	0	0	0	0	0	0	12
Westside Irrigation District	14.79		0	0	0	0	0	279	23	407	420	992	852	0	2903
Hospital Water District	18.05	30.96	664	213	0	5	214	1651	4251	4421	3580	5094	3688	2006	25787
Banta-Carbena Irrigation District	20.42		0	0	0	0	0	0	573	1790	243	2644	113	0	5363
Gordon H. Ball, Incorporated	22.50		0	1	0	0	1	1	6	8	5	10	6	7	45
Bern Canon Water District	31.31	35.18	98	111	0	2	2	262	1446	1554	1783	1792	1463	708	9213
West Stanislaus Irrigation District	31.31	38.14	0	0	0	1	1	0	5068	1952	3457	11058	5236	0	26593
Del Puerto Water District	35.73	42.51	227	0	0	0	134	806	2555	1946	2212	2566	1785	1241	13482
Salado Water District	42.10	46.83	22	0	0	1	145	462	2078	1247	1552	2124	1487	173	9861
Patterson Water District	42.51		186	4	0	0	88	809	752	541	762	1118	1179	386	6025
Sunflower Water District	44.22	52.02	167	0	0	1	5	924	3550	2341	2951	3568	2509	1064	17082
Lee White Faving Company			0	0	0	0	0	0	0	0	0	3	2	0	5
Orestimba Water District	46.83	51.41	67	0	0	1	131	492	3820	2643	2443	3781	2285	323	15983
Foothill Water District	51.65	57.46	278	0	0	1	3	541	1687	1556	1839	2321	1873	732	10830
Davis Water District	53.64	56.82	193	0	0	0	0	419	482	762	1009	1034	691	562	5152
Mustang Water District	56.80	62.67	1	50	0	0	74	419	1344	1449	1367	2280	2195	1195	11024
Central California Irrigation District	58.26	76.06	72	16	0	0	10	2049	10617	11768	11552	12546	10717	6542	66087
Quinto Water District	64.32	67.55	35	0	0	0	0	320	1455	1765	1529	1876	1703	715	9398
Romero Water District	66.70	68.03	27	0	0	0	0	93	393	515	681	754	721	594	3778
San Luis Water District, Municipal and Industrial	69.21		9	2	0	0	2	12	17	32	21	23	38	57	213
San Luis Water District	69.21	90.53	1547	769	0	1001	3282	6831	10058	11186	10648	12372	9387	4066	71147
Grasslands	70.00		9761	1595	0	0	0	0	0	0	0	0	0	4406	15764
San Hamburg Farms	90.53		3	2	0	0	0	0	1	3	3	3	3	3	21
Panoche Water District	93.25	96.70	3308	4342	0	1058	3458	6318	8066	9214	9901	10347	8186	4643	68841
Eagle Field Water District	93.27	94.57	332	0	0	47	221	262	299	539	507	571	460	114	3357
Oro Loma Water District	95.50	96.62	42	0	0	0	0	0	556	989	871	1018	886	211	4573
West Side Golf Club, Incorporated	95.95		8	5	4	3	2	2	9	14	17	23	21	17	125
Mercy Springs Water District	97.70	99.81	173	265	0	0	0	0	690	1180	1098	1235	1329	187	6159
Panoche Water District, Municipal and Industrial	100.84		1	1	1	1	1	1	1	1	1	1	1	1	12
Widened Water District	102.03		27	4	0	0	67	70	102	347	267	298	257	13	1452
Broadview Water District	102.95		1264	1436	217	261	1414	852	1534	2866	3216	2652	1319	575	17606
Firebaugh Canal Company	109.45		0	0	0	0	0	0	2267	7452	7644	8182	8213	730	35008
Total			19070	8878	222	2382	9539	25517	66690	74964	75555	96165	72150	33329	484461
Net Deliveries DMC to Mendota Pool	115.62		65103	31886	674	0	20281	69176	200680	117237	141412	164711	153638	96676	961468
Net Deliveries DMC to O'Neill Forebay	69.30		18081	17650	0	9126	55464	19391	57111	35410	41001	15776	0	6939	250649
Madera Canal															
Madera Irrigation District	6.10	32.2	12901	6440	3245	2751	9225	11598	22046	23417	33287	33688	2410	0	162366
Adobe Ranch	20.6		0	133	61	61	45	7	0	0	0	0	56	84	445
Chowchilla Water District	35.9		9804	0	0	3297	20910	4663	14472	16215	18825	19984	22610	1534	132319
Total			22705	6573	3306	6109	30100	16261	37370	40132	52112	53672	25376	1628	295124
Millerton Lake															
Fresno County Water District #18			7	3	3	3	4	5	9	16	14	27	24	14	134
County of Madera			1	1	1	1	1	1	1	0	2	1	2	1	13
Total			8	4	4	4	5	6	10	16	16	28	26	15	147

TABLE B-9
DELIVERIES FROM CALIFORNIA AQUEDUCT^a
October 1969 through September 1970

WATER USER	MONTHLY DELIVERIES IN ACRE FEET												TOTAL
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
North San Joaquin Division													
South Bay Aqueduct	9831	8175	9209	10475	4892	5029	12104	13818	12143	11322	11185	7630	115813
Oak Flat Water District	9	7	109	67	22	484	934	828	884	1216	838	555	5933
Total	9840	8182	9318	10542	4914	5513	13038	14646	13027	12538	12023	8185	121766
O'Neill Forebay													
San Luis Water District Total	51	29	7	18	148	597	536	675	977	893	652	308	4891
San Luis Division													
San Luis Water District	68	632	2165	1330	0	130	675	504	1221	1768	663	2	9158
Panoche Water District	771	663	1833	1708	2399	2635	2198	2031	2208	3224	2794	951	23415
Westlands Water District	15973	17034	19663	23082	26672	25236	44221	45978	59614	65712	55438	25687	424310
City of Huron	38	30	30	34	24	35	40	48	52	77	64	52	524
Total	16850	18359	23691	26154	29095	28036	47134	48561	63095	70781	58959	26692	457407
South San Joaquin Division													
Kings County	0	0	0	0	0	0	0	0	0	0	0	0	0
Empire West Side Irrigation District	0	0	0	0	0	0	0	0	0	560	1015	1184	2759
Tulare Lake Basin Water Storage District	0	0	0	0	0	0	0	0	0	0	0	0	0
Hacienda Water District	0	98	0	66	573	263	211	644	886	1520	1578	1176	7015
Dudley Ridge Water District	873	976	2024	3683	2947	2091	2515	4351	6426	6924	5947	1731	40488
Kern County Water Agency	3937	2393	2983	3336	4748	6855	10650	13645	20828	28190	22759	9448	129772
Total	4810	3467	5007	7085	8268	9209	13376	18640	28140	37194	31299	13539	180034
Coastal Branch													
Devils Den Water District	0	54	1383	1551	1421	726	463	488	1341	1569	1703	440	11139
Kern County Water Agency	1195	962	1466	2059	2607	5876	6399	7108	10693	12257	13445	8056	72123
Total	1195	1016	2849	3610	4028	6602	6862	7596	12034	13826	15148	8496	83262
Delta Pumping Plant to California Aqueduct													
	16770	37338	44783	40283	21385	26819	52365	17426	33931	34953	51312	38507	415872

a Does not include operational losses or change in storage.

TABLE B-1
IMPORTS AND EXPORTS
October 1969 through September 1970

WATER USER	IN ACRE - FEET												TOTAL
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	
	<u>Imports from Delta</u>												
California Aqueduct (a)	5940	28700	15470	2922	3594	21420	38330	3133	20700	22740	34230	24500	296000
Delta-Mendota Canal	100220	21780		2834	8222	108000	21002	219000	251680	273440	218820	135780	165290
Total Import from Delta	106200	50330	15470	5456	4621	122400	25500	222100	272400	246000	256000	165400	1944900
	<u>Exports from the Tulare River</u>												
City and County of San Francisco (b)	21640	101920	20810	11720		6136	1003	24128	20763	21433	21626	27874	206345

Data for Delta-Mendota Canal furnished by U. S. Bureau of Reclamation. Data for Tulare River exports furnished by City and County of San Francisco; acre-foot values are published as received and not rounded to the criteria used by the Department of Water Resources.

- (a) Water delivered to San Luis Division including deliveries to Oak Flat Water District.
(b) Includes water delivered to Lawrence Radiation Laboratory.

TABLE B-II

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	C03110	TULARE LAKE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1													1
2													2
3													3
4													4
5													5
6													6
7													7
8													8
9													9
10													10
11													11
12													12
13													13
14													14
15													15
16													16
17													17
18													18
19													19
20													20
21													21
22													22
23													23
24													24
25													25
26													26
27													27
28													28
29													29
30													30
31													31

DATA NOT AVAILABLE AT TIME OF PUBLICATION

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED
NR — NO RECORD
NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1 4 SEC T & R M D B & N	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CF5	GAGE HT	DATE			FROM	TO	
30 03 10	119 49 35			196.8	6-28-41		FEB 37-DATE	1937		0.00 USC&S

Station located 2.2 miles southwest of Chatom Ranch, 6 miles southwest of Corcoran on south end of El Rico Bridge. Tulare Lake receives water from Kings, Kaweah, and Tule Rivers during high-water periods and occasionally from Kern River, Deer Creek, and several small intermittent streams. Elevation at lowest point of lake bed is now about 175 feet, U. S. Geological Survey datum. Records furnished by Tulare Lake Basin Water Storage District and the Boswell Company.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1970	B07885	SAN JOAQUIN RIVER BELOW FRIANT

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	1.95	1.66	1.69	1.72	3.35	2.17	2.02	1.88	2.10	2.09	2.07	1.98	1
2	1.95	1.65	1.69	1.73	3.35	2.36	2.02	1.87	2.10	2.08	2.07	1.98	2
3	1.87	1.65	1.69	1.74	4.14	1.94	1.94	1.87	2.09	2.08	2.07	2.00	3
4	1.76	1.64	1.69	1.74	5.14	2.02	1.86	1.88	2.08	2.08	2.07	2.09	4
5	1.76	1.63	1.70	1.74	5.33	2.28	1.86	1.93	2.08	2.07	2.07	2.04	5
6	1.76	1.65	1.71	1.74	5.32	2.06	1.86	2.07	2.08	2.06	2.06	2.00	6
7	1.76	1.65	1.71	1.75	5.32	2.00	1.87	2.07	2.08	2.06	2.06	1.99	7
8	1.75	1.65	1.72	1.75	5.32	1.97	1.87	2.07	2.06	2.06	2.06	2.00	8
9	1.76	1.65	1.72	1.76	5.16	1.94	1.87	2.07	2.04	2.10	2.06	2.00	9
10	1.76	1.64	1.72	1.77	4.23	1.92	1.87	2.07	2.04	2.14	2.05	2.00	10
11	1.76	1.65	1.73	1.78	2.66	1.89	1.87	2.08	2.04	2.14	2.05	1.99	11
12	1.76	1.65	1.73	1.78	1.73	1.87	1.88	2.08	2.05	2.18	2.09	2.00	12
13	1.75	1.65	1.73	1.77	1.72	1.86	1.89	2.08	2.04	2.21	2.14	2.00	13
14	1.75	1.65	1.74	1.85	1.73	1.85	1.89	2.08	2.05	2.23	2.14	2.00	14
15	1.76	1.65	1.75	1.82	1.72	1.84	1.90	2.08	2.05	2.27	2.14	2.00	15
16	1.76	1.65	1.75	2.49	1.71	1.87	1.89	2.08	2.02	2.27	2.13	2.00	16
17	1.76	1.65	1.71	2.00	1.79	1.82	1.90	2.08	1.99	2.27	2.10	1.96	17
18	1.77	1.65	1.72	1.91	1.77	1.81	1.90	2.08	2.00	2.27	2.08	1.92	18
19	1.77	1.66	1.76	1.84	1.74	1.79	1.90	2.08	2.00	2.27	2.08	1.92	19
20	1.72	1.66	1.75	1.83	1.73	1.78	1.90	2.09	2.03	2.26	2.07	1.92	20
21	1.63	1.66	1.76	1.81	1.71	1.78	1.90	2.10	2.00	2.26	2.07	1.92	21
22	1.62	1.66	1.75	1.88	1.70	1.78	1.90	2.10	1.99	2.24	2.06	1.92	22
23	1.62	1.66	1.74	2.96	1.64	1.77	1.90	2.10	1.99	2.19	2.06	1.93	23
24	1.63	1.66	1.73	3.94	1.64	1.77	1.90	2.10	2.00	2.19	2.03	1.93	24
25	1.64	1.65	1.77	4.18	1.64	1.77	1.90	2.10	2.05	2.19	1.99	1.94	25
26	1.65	1.64	1.75	3.93	1.64	1.77	1.90	2.10	2.10	2.18	1.99	1.94	26
27	1.65	1.65	1.74	3.37	1.65	2.02	1.91	2.10	2.08	2.16	1.99	1.95	27
28	1.65	1.66	1.74	3.36	1.70	2.41	1.91	2.10	2.08	2.15	1.98	1.95	28
29	1.65	1.67	1.75	3.35		2.54	1.89	2.11	2.08	2.14	1.98	1.92	29
30	1.66	1.67	1.73	3.35		2.44	1.88	2.10	2.09	2.14	1.98	1.89	30
31	1.65		1.72	3.35		2.23		2.10		2.11	1.98		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	GAGE HT	DATE	TIME	GAGE HT	DATE	TIME	GAGE HT	DATE	TIME	GAGE HT
2-4-70	1100	5.34									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
36 59 04	119 43 24	SW 7 11S 21E	77200	23.8	12-11-37	OCT 07-DATE		1938		294.00	USGS

Station located 2 miles downstream from Friant Dam and 1.5 miles downstream from Cottonwood Creek. Flow regulated by Millerton Lake beginning in 1944, and by other upstream reservoirs. Records furnished by U. S. Geological Survey. Drainage area is 1,675 square miles.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	B07400	SAN JOAQUIN RIVER NEAR STEVINSON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	64.55	63.71	65.08	64.06	68.88	64.00	63.34	64.02	63.09	62.64	62.50	62.55	1
2	64.63	63.66	64.92	64.04	68.35	65.27	63.25	63.98	63.08	62.56	62.48	62.54	2
3	64.66	63.65	64.83	64.03	68.04	67.89	63.24	63.92	62.99	62.47	62.46	62.57	3
4	64.66	63.64	64.81	64.13	67.26	69.39	63.23	63.84	62.92	62.60	62.46	62.55	4
5	64.57	63.63	64.78	64.22	66.52	68.83	63.17	63.52	62.86	62.77	62.55	62.61	5
6	64.44	63.78	64.73	64.25	66.26	69.60	63.15	63.37	62.84	62.75	62.54	62.80	6
7	64.42	64.73	64.67	64.27	66.25	69.94	63.16	63.20	62.82	62.75	62.53	62.72	7
8	64.49	64.89	64.58	64.26	67.03	68.78	63.18	63.08	62.79	62.54	62.54	62.74	8
9	64.58	64.78	64.44	64.26	68.08	67.78	63.29	63.08	62.81	62.44	62.55	62.95	9
10	64.65	64.63	64.33	64.24	67.94	67.30	63.34	63.16	62.77	62.42	62.49	63.19	10
11	64.68	64.54	64.30	64.35	67.86	66.86	63.26	63.50	62.68	62.44	62.48	63.11	11
12	64.61	64.53	64.25	65.12	67.91	66.36	63.20	63.53	62.69	62.47	62.48	62.80	12
13	64.52	64.66	64.24	65.13	67.55	65.94	63.18	63.50	62.72	62.36	62.52	62.64	13
14	64.42	64.68	64.22	65.02	66.79	65.48	63.21	63.45	62.86	62.33	62.56	62.60	14
15	64.43	64.68	64.18	65.51	66.34	65.06	63.48	63.42	62.82	62.37	62.64	62.62	15
16	64.86	64.60	64.13	67.04	66.52	64.79	63.82	63.41	62.80	62.32	62.62	62.68	16
17	65.50	64.55	64.09	68.94	66.35	64.36	63.82	63.38	62.90	62.32	62.62	62.94	17
18	65.36	64.58	64.07	71.78	66.37	64.19	63.82	63.41	62.76	62.40	62.73	62.96	18
19	64.68	64.70	64.04	71.85	66.70	63.89	63.78	63.41	62.67	62.48	62.75	62.93	19
20	64.07	64.79	64.01	71.15	66.46	63.72	63.81	63.35	62.75	62.66	62.59	62.88	20
21	63.87	64.71	64.03	70.90	66.45	63.78	63.78	63.20	62.70	62.66	62.46	62.89	21
22	63.80	64.70	64.09	70.52	65.59	64.73	63.72	63.04	62.65	62.47	62.48	62.76	22
23	63.75	64.73	64.08	69.94	65.28	64.80	63.65	62.96	62.68	62.47	62.42	62.75	23
24	63.75	64.77	64.04	69.88	64.85	64.63	63.55	62.98	62.68	62.48	62.40	62.69	24
25	63.74	64.87	64.10	69.93	64.58	63.86	63.49	62.98	62.69	62.57	62.44	62.75	25
26	63.69	64.90	64.17	69.97	64.24	63.81	63.62	62.91	62.66	62.57	62.51	62.86	26
27	63.74	64.89	64.22	69.83	63.90	63.63	63.78	63.06	62.66	62.47	62.52	62.86	27
28	63.86	64.88	64.39	69.47	63.76	63.55	64.04	63.06	62.67	62.48	62.53	62.92	28
29	63.83	64.87	64.27	69.20		63.46	64.03	63.11	62.67	62.46	62.54	62.99	29
30	63.82	65.06	64.15	69.27		63.42	64.04	63.11	62.67	62.43	62.56	62.94	30
31	63.79		64.08	69.22		63.40		63.07		62.46	62.58		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-18-70	2300	72.16									
3-7-70	0400	70.21									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO	
37 17 42	120 51 00	26 78 10E	26740	76.23	2-26-69	OCT 61-DAT	MAY 61-SEP 61	1961		USCGS
Station located on bridge 2.3 miles south of Stevinson on Lander Avenue. Flow regulated by upstream reservoirs and diversions.										

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1970	B07375	SAN JOAQUIN RIVER AT FREMONT FORD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	56.75	55.71	57.48	56.00	62.42	57.07	56.73	56.97	55.84	55.59	55.41	55.61	1
2	56.74	55.63	57.32	55.97	61.96	57.73	56.65	56.90	55.83	55.38	55.37	55.70	2
3	56.79	55.69	57.18	55.92	61.47	59.91	56.53	56.86	55.66	55.45	55.48	55.78	3
4	56.71	55.71	57.18	55.95	60.81	62.28	56.54	56.78	55.52	55.58	55.53	55.73	4
5	56.60	55.73	57.12	56.08	59.83	62.44	56.60	56.65	55.59	55.88	55.53	55.69	5
6	56.54	55.83	57.05	56.12	59.36	62.72	56.56	56.47	55.55	55.94	55.39	55.68	6
7	56.46	56.42	56.97	56.15	59.21	63.27	56.54	56.24	55.58	55.82	55.30	55.70	7
8	56.38	57.13	56.91	56.15	59.79	62.97	56.56	56.25	55.66	55.53	55.42	55.57	8
9	56.44	57.18	56.80	56.21	60.95	62.17	56.57	56.27	55.66	55.33	55.65	55.55	9
10	56.45	56.96	56.67	56.24	61.33	61.36	56.51	56.35	55.92	55.22	55.69	55.66	10
11	56.52	56.76	56.63	56.34	61.12	60.68	56.51	56.61	55.84	55.34	55.72	55.72	11
12	56.54	56.68	56.55	57.06	61.18	59.89	56.56	56.71	55.82	55.41	55.75	55.62	12
13	56.59	56.82	56.44	57.69	60.85	59.39	56.56	56.61	55.76	55.36	55.62	55.57	13
14	56.55	56.95	56.41	57.76	60.09	58.89	56.59	56.54	55.78	55.34	55.50	55.57	14
15	56.51	56.98	56.39	58.03	59.43	58.39	56.70	56.47	55.82	55.27	55.65	55.61	15
16	56.66E	56.93	56.29	59.44	59.36	58.14	56.85	56.37	55.82	55.20	55.67	55.50	16
17	55.75E	56.79	56.22	60.86	59.41	57.79	56.87	56.29	55.76	55.07	55.67	55.45	17
18	56.91E	56.79	56.19	63.17	59.16	57.57	56.72	56.26	55.63	55.14	55.83	55.64	18
19	57.10E	56.85	56.17	64.27	59.71	57.31	56.61	56.25	55.53	55.26	55.72	55.66	19
20	56.84E	57.00	56.16	64.35	59.73	57.08	56.59	56.20	55.65	55.45	55.52	55.59	20
21	56.55E	56.99	56.15	64.16	59.31	56.98	56.60	56.17	55.62	55.47	55.42	55.72	21
22	56.30E	56.96	56.22	63.98	58.84	57.38	56.60	56.02	55.71	55.50	55.62	55.77	22
23	56.11E	56.98	56.30	63.62	58.53	57.73	56.55	55.95	55.75	55.29	55.77	55.65	23
24	55.96E	57.01	56.31	63.35	58.16	57.60	56.46	55.79	55.63	55.21	55.76	55.69	24
25	55.88E	57.08	56.28	63.26	57.89	57.05	56.48	55.82	55.40	55.30	55.64	55.58	25
26	55.84E	57.18	56.35	63.27	57.62	56.78	56.56	55.71	55.24	55.31	55.55	55.58	26
27	55.84	57.20	56.37	63.20	57.26	56.70	56.67	55.77	55.25	55.26	55.51	55.60	27
28	55.83	57.19	56.54	63.00	57.00	56.59	56.90	55.75	55.45	55.26	55.43	55.45	28
29	55.86	57.20	56.45	62.69	56.64	57.02	55.83	55.48	55.38	55.38	55.47	55.52	29
30	55.83	57.25	56.26	62.58	56.62	57.00	55.86	55.56	55.29	55.29	55.49	55.69	30
31	55.81		56.13	62.60	56.76		55.79			55.38	55.43		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED

NR - NO RECORD

NF - NO FLOW

DATE	TIME	GAUGE HT	DATE	TIME	GAUGE HT	DATE	TIME	GAUGE HT	DATE	TIME	GAUGE HT
1-19-70	2000	64.41									
3-7-70	1300	63.33									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAUGE HEIGHT ONLY	PERIOD		ZERO ON GAUGE	REF DATUM
			CFS	GAUGE HT	DATE			FROM	TO		
37 18 35	120 55 45		8260b	68.02	2-27-69	MAR 37-DATE		1944	1957	-3.73	USCGS
								1957	1959	-3.77	USCGS
								1959		0.00	USCGS

Station located 30 feet below Fremont Ford Bridge, 4.5 miles west of Stevinson, 6.7 miles upstream from the Merced River. Records furnished by U. S. Geological Survey. Drainage area is approximately 8,090 square miles. Flow records are published in U. S. Geological Survey report "Surface Water Records of California".

a The maximum gage height of 68.05 does not represent the maximum discharge, which occurred at gage height 68.02 feet on 2-27-69.

b Maximum discharge of 8,260 cfs is only for San Joaquin River channel. During periods of high flow some water bypasses the station through three overflow channels known as North, Middle, and South Mud Sloughs.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	B05170	MERCED RIVER BELOW SNELLING

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	6.94	9.31	9.21	9.07	6.38	7.90	6.18	6.05	6.06	5.83	6.11	5.99	1
2	6.96	8.65	9.21	8.97	6.41	8.85	6.35	6.04	6.05	5.86	6.08	6.12	2
3	7.15	9.24	9.20	8.97	9.79	9.94	6.39	6.15	5.93	5.93	5.99	6.05	3
4	7.31	9.32	9.24	8.96	9.93	10.22	6.48	6.05	6.06	5.92	6.06	5.96	4
5	7.30	9.34	9.34	8.97	9.96	10.44	6.47	6.00	6.09	5.92	6.09	6.08	5
6	7.32	9.34	9.34	8.95	9.96	10.35	6.42	5.97	5.86	5.97	6.06	6.20	6
7	7.29	9.32	9.35	8.78	9.93	10.38	6.44	5.93	5.95	5.96	6.08	6.10	7
8	7.31	9.28	9.36	8.35	9.94	10.38	6.24	6.05	6.02	5.93	6.12	6.05	8
9	7.34	9.28	9.36	8.42	9.83	10.40	6.32	6.03	6.08	6.01	6.09	6.13	9
10	7.36	9.27	9.36	8.65	9.38	8.40	6.20	6.06	5.96	6.10	6.00	6.13	10
11	7.36	9.22	9.00	7.37	9.38	9.33	6.19	6.07	5.92	6.10	5.96	6.12	11
12	7.32	9.57	8.63	6.65	9.23	8.71	6.20	6.04	5.97	6.08	6.00	6.18	12
13	7.41	9.85	8.61	6.43	9.38	7.50	6.21	5.99	5.94	6.05	6.10	6.00	13
14	7.96	9.82	8.61	6.71	9.41	7.15	6.22	5.98	5.94	6.10	6.09	6.11	14
15	8.96	7.85	8.62	6.60	9.40	7.14	6.31	6.00	5.88	6.05	6.04	6.16	15
16	9.25	7.28	8.62	7.27	9.41	7.07	6.27	6.04	5.93	6.06	5.99	6.05	16
17	9.28	8.87	8.64	6.65	9.76	6.65	6.29	6.02	6.07	6.04	5.99	5.99	17
18	9.28	9.21	8.36	6.51	9.95	6.70	6.21	6.05	5.91	6.06	6.03	5.78	18
19	9.27	9.21	7.99	6.45	9.95	6.73	6.12	6.01	5.95	6.05	6.02	5.82	19
20	9.32	9.22	7.95	6.44	9.88	6.70	6.14	5.98	5.88	6.02	5.95	5.83	20
21	9.56	9.21	7.96	6.56	8.70	6.69	6.15	6.01	5.99	6.06	6.00	5.86	21
22	9.82	7.63	8.28	6.47	8.71	6.67	6.14	5.94	6.00	6.11	6.04	5.88	22
23	9.88	7.18	8.87	6.42	8.67	6.57	6.14	5.89	5.97	6.08	6.01	5.84	23
24	9.87	8.83	9.35	6.40	9.31	6.46	6.07	5.84	6.10	6.05	5.97	5.94	24
25	9.83	9.17	9.34	6.38	9.33	6.28	6.09	5.84	6.07	6.03	6.03	5.98	25
26	9.88	9.18	9.34	6.36	8.67	6.36	6.07	5.91	6.04	6.07	5.81	6.00	26
27	9.60	9.20	9.36	6.38	8.64	6.31	6.15	6.07	6.06	6.09	5.92	5.92	27
28	9.28	9.21	9.36	6.39	7.81	6.31	6.22	6.07	6.04	6.13	5.93	5.89	28
29	9.28	9.21	9.63	6.40	6.22	6.14	6.03	6.04	6.10	5.85	5.93	5.93	29
30	9.29	9.21	9.92	6.39	6.25	6.25	6.01	6.06	6.07	6.09	5.89	6.10	30
31	9.31		9.92	6.39	6.28	6.28		6.03		6.02	5.87		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED

NR - NO RECORD

NF - NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
10-24-69	1520	10.20									
2- 3-70	0300	10.01									
3- 4-70	2130	10.94									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC. T & R. M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 30 06	120 27 03	NE17 5S 14E	14500	17.10	1-7-65	NOV 58-DATE		1958		221.12	USGS

Station located 0.2 mile downstream from Merced-Snellings highway bridge, 1.4 miles southwest of Snelling. Flow regulated by Exchequer powerplant and McSwain Dam. Prior to November 1958, records available for a site 3.6 miles downstream. Merced Irrigation District Main Canal and several small gravity diversions are upstream from station.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1970	805155	MERCED RIVER AT CRESSEY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	11.25	14.37	16.99	15.30	11.78	13.07	11.50	11.25	11.12	10.63	10.51	10.53	1
2	11.21	14.02	16.99	14.67	11.75	14.08	11.43	11.25	11.10	10.56	10.53	10.51	2
3	11.16	14.19	17.01	14.64	13.35	15.44	11.55	11.28	11.09	10.51	10.55	10.55	3
4	11.39	15.63	16.99	14.63	15.39	15.63	11.62	11.28	11.03	10.49	10.51	10.59	4
5	11.56	15.82	17.27	14.63	15.47	16.96	11.69	11.26	11.00	10.49	10.54	10.62	5
6	11.62	15.92	17.46	14.63	15.54	16.25	11.70	11.21	11.07	10.47	10.55	10.61	6
7	11.70	15.80	17.50	14.63	15.51	16.17	11.53	11.15	11.03	10.51	10.24E	10.68	7
8	11.57	15.66	17.53	14.25	15.51	16.17	11.61	11.09	10.97	10.19E	10.30E	10.75	8
9	11.67	15.63	17.53	14.12	15.53	16.16	11.49	11.06	11.05	10.22E	10.27E	10.68	9
10	11.72	15.62	17.54	14.26	15.04	15.44	11.38	11.13	11.21	10.27E	10.30E	10.65	10
11	11.72	15.56	17.46	14.28	14.81	14.07	11.31	11.16	11.19	10.28E	10.62	10.78	11
12	11.74	15.60	15.94	12.96	14.81	14.76	11.31	11.13	10.96	10.31E	10.52	10.78	12
13	11.76	16.41	15.64	12.68	14.66	13.29	11.36	11.12	10.77	10.28E	10.50	10.84	13
14	11.92	16.43	15.61	12.31	14.99	12.67	11.37	11.04	10.70	10.27E	10.48	10.83	14
15	12.92	15.54	15.64	13.24	14.96	12.51	11.37	11.06	10.64	10.25E	10.55	10.82	15
16	14.40	14.53	15.61	13.51	14.88	12.46	11.46	11.11	10.60	10.24E	10.56	10.84	16
17	14.31	16.01	15.62	13.62	15.39	12.28	11.45	11.12	10.55	10.28E	10.59	10.83	17
18	14.31	16.12	15.61	12.40	15.72	12.05	11.41	11.17	10.68	10.26E	10.49	10.77	18
19	14.30	15.60	14.83	12.30	15.62	12.03	11.39	11.13	10.73	10.25E	10.44	10.67	19
20	14.32	15.02	14.60	12.21	15.60	12.02	11.32	11.11	10.60	10.24E	10.51	10.62	20
21	14.37	14.74	14.55	12.46	14.77	11.97	11.31	11.07	10.63	10.49	10.49	10.59	21
22	15.06	14.29	14.60	13.08	14.00	11.97	11.27	11.00	10.80	10.52	10.43	10.60	22
23	15.15	14.45	15.10	12.22	13.98	11.92	11.24	11.03	10.69	10.53	10.45	10.67	23
24	15.24	14.68	15.04	12.04	14.04	11.82	11.26	11.00	10.63	10.53	10.50	10.71	24
25	15.13	16.93	15.15	11.95	15.30	11.62	11.25	11.00	10.62	10.51	10.49	10.63	25
26	15.15	16.87	15.17	11.89	14.09	11.60	11.25	10.94	10.61	10.49	10.43	10.64	26
27	15.16	16.84	15.18	11.85	13.91	11.61	11.33	10.93	10.60	10.55	10.44	10.67	27
28	14.37	16.89	15.16	11.94	13.52	11.57	11.32	10.99	10.64	10.57	10.46	10.69	28
29	14.26	16.95	15.19	11.77		11.56	11.35	11.08	10.68	10.49	10.51	10.68	29
30	14.23	17.02	15.65	11.82		11.51	11.37	11.04	10.63	10.47	10.47	10.69	30
31	14.34		15.64	11.80		11.46		11 09		10.51	10.52		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	GAGE HT	DATE	TIME	GAGE HT	DATE	TIME	GAGE HT	DATE	TIME	GAGE HT
E - ESTIMATED	3-5-70	0930	17.75								
NR - NO RECORD											
NF - NO FLOW											

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1 4 SEC T & R M O B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
37 25 28	120 39 47	SW 9 6S 12E	34400	22.67 32.67a	12-4-50 12-4-50	JUL 41-DATE	APR 41-JUL 41	1950 1962	1962 1962	96.24 86.24	USCGS USCGS
Station located 150 feet downstream from McGwain Bridge, immediately north of Cressey. Prior to May 20, 1960, station located 250 feet upstream from bridge. Flows regulated by upstream reservoirs and diversions.											
a Reflects present datum.											

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1970	B07300	SAN JOAQUIN RIVER NEAR NEWMAN

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	50.73	52.65	53.05	53.27	55.18	51.86	49.74	49.92	48.67	48.27E	47.92	48.22	1
2	50.65	52.60	53.03	52.71	54.79	51.93	49.68	49.82	48.59	48.20E	48.05	48.28	2
3	50.74	52.22	53.02	52.08	54.22	53.76	49.63	49.73	48.45	48.14E	48.18	48.45	3
4	50.74	52.21	52.96	51.96	54.73	56.22	49.70	49.74	48.25	48.23E	48.20	48.49	4
5	50.68	52.60	52.94	51.95	55.12	57.36	49.82	49.60	48.27	48.41E	48.16	48.46	5
6	50.72	52.79	52.97	51.94	54.94	58.10	49.89	49.41	48.19	48.53E	48.04	48.52	6
7	50.75	53.04	52.98	51.94	54.89	58.39	49.83	49.25	48.32	48.45E	48.03	48.54	7
8	50.66	53.30	52.96	51.89	55.03	58.53	49.72	49.22	48.51	48.22E	48.08	48.24	8
9	50.67	53.38	52.91	51.51	55.64	58.03	49.69	49.21	48.41	48.05E	48.19	48.33	9
10	50.79	53.32	52.87	51.52	56.21	57.31	49.63	49.30	48.67	47.98E	48.39	48.46	10
11	50.74	53.09	52.85	51.79	55.84	56.01	49.67	49.53	48.63	47.91E	48.32	48.48	11
12	50.73	52.94	52.68	52.01	55.68	54.92	49.61	49.46	48.57	47.97E	48.32	48.39	12
13	50.73	53.07	52.08	51.74	55.53	54.46	49.71	49.43	48.55	48.09	48.24	48.38	13
14	50.71	53.64	51.89	51.77	55.10	53.16	49.67	49.37	48.59	47.98	48.05	48.45	14
15	50.84	53.75	51.83	51.94	54.74	52.31	49.62	49.33	48.63	47.93	48.16	48.41	15
16	51.76	52.82	51.77	53.01	54.50	51.85	49.71	49.23	48.51	47.95	48.20	48.37	16
17	52.77	51.51	51.70	54.54	54.51	51.49	49.82	49.16	48.42E	47.89	48.25	48.34	17
18	53.05	51.81	51.66	55.74	54.82	51.13	49.76	49.10	48.34E	47.83	48.33	48.50	18
19	53.00	52.66	51.59	57.13	55.22	50.79	49.58	49.16	48.28E	47.89	48.30	48.38	19
20	52.81	52.82	51.23	58.20	55.31	50.58	49.60	49.08	48.23E	48.03	48.14	48.38	20
21	52.72	52.86	51.10	58.13	55.14	50.44	49.49	49.03	48.31E	47.92	48.04	48.40	21
22	52.76	52.84	51.08	57.92	54.08	50.59	49.45	48.90	48.33E	47.88	48.05	48.47	22
23	53.21	52.19	51.16	57.60	53.37	50.89	49.47	48.73	48.41E	47.87	48.25	48.38	23
24	53.39	51.29	51.64	56.88	53.06	50.76	49.44	48.63	48.48E	47.86	48.44	48.39	24
25	53.46	51.67	52.31	56.50	53.14	50.45	49.48	48.60	48.34E	47.90	48.21	48.36	25
26	53.42	52.58	52.54	56.37	53.57	50.09	49.62	48.57	48.20E	47.96	48.16	48.32	26
27	53.44	52.80	52.63	56.27	52.60	49.99	49.57	48.57	48.05E	47.99	48.13	48.40	27
28	53.33	52.88	52.69	56.05	52.25	49.82	49.57	48.47	48.14E	47.94	48.12	48.28	28
29	52.79	52.93	52.67	55.70		49.88	49.71	48.51	48.21E	47.91	48.01	48.26	29
30	52.68	52.95	52.72	55.33		49.87	49.87	48.57	48.20E	47.85	48.10	48.37	30
31	52.66		53.16	55.28		49.74		48.53		47.89	48.11		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-20-70	1900	58.30									
3-8-70	0300	58.59									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 21 02	120 58 34	SW 3 7S 9E	33300a	65.90	2-26-69	APR 12-DATE		1912	1959	47.24	USCGS
										47.31	USCGS
										0.00	USCGS

Station located 300 feet downstream from bridge on Hills Ferry Road, 500 feet downstream from the Merced River, 3.5 miles northeast of Newman. Records furnished by U. S. Geological Survey. Drainage area is 9,990 square miles. This station equipped with DNR radio telemeter. Flow records are published in the U. S. Geological Survey report "Surface Water Records of California". Flows regulated by upstream reservoirs and diversions.

a During periods of high flow the Merced River overflows into Merced River Slough bypassing this station on the San Joaquin River. The maximum discharge of record (33,300 cfs) includes flow in Merced River Slough.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	B0725	SAN JOAQUIN RIVER AT CROWS LANDING BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	41.60	43.06	43.29	43.47	45.48	42.44	40.61	40.78	39.77	39.51	38.92	39.26	1
2	41.49	43.03	43.31	43.26	45.20	43.06	40.58	40.72	39.78	39.42	39.05	39.24	2
3	41.55	42.87	43.31	42.60	44.72	43.70	40.48	40.66	39.61	39.22	39.30	39.41	3
4	41.56	42.60	43.26	42.42	44.71	45.68	40.50	40.63	39.39	39.27	39.25	39.40	4
5	41.50	42.98	43.24	42.38	45.31	47.36	40.60	40.56	39.31	39.45	39.19	39.38	5
6	41.48	43.16	43.26	42.35	45.21	48.16	40.72	40.35	39.23	39.62	39.16	39.58	6
7	41.51	43.35	43.27	42.35	45.14	48.51	40.66	40.18	39.29	39.44	39.29	39.56	7
8	41.38	43.57	43.26	42.34	45.19	48.80	40.68	40.22	39.45	39.16	39.20	39.28	8
9	41.40	43.67	43.22	42.10	45.57	48.6	40.60	40.16	39.42	39.03	39.26	39.27	9
10	41.43	43.68	43.18	41.95	46.18	47.97	40.54	40.20	39.49	38.91	39.46	39.35	10
11	41.38	43.50	43.15	42.13	46.16	47.01	40.42	40.36	39.57	38.91	39.29	39.40	11
12	41.35	43.34	43.09	42.38	45.91	46.44	40.50	40.31	39.57	39.13	39.29	39.41	12
13	41.40	43.32	42.62	42.20	45.83	45.07	40.61	40.33	39.56	39.19	39.28	39.41	13
14	41.40	43.78	42.35	42.22	45.50	44.11	40.64	40.25	39.58	39.05	39.12	39.48	14
15	41.48	43.98	42.27	42.27	45.14	43.27	40.57	40.22	39.72	39.10	39.18	39.54	15
16	42.09	43.62	42.22	43.32	44.86	42.77	40.62	40.20	39.59	38.99	39.32	39.49	16
17	43.02	42.36	42.16	44.50	44.81	42.41	40.69	40.17	39.45	38.97	39.40	39.36	17
18	43.37	42.08	42.13	45.54	44.96	42.02	40.67	40.09	39.36	38.90	39.38	39.48	18
19	43.39	42.88	42.09	46.47	45.37	41.76	40.51	40.07	39.31	38.92	39.33	39.46	19
20	43.27	43.10	41.80	47.79	45.53	41.43	40.50	40.03	39.31	39.13	39.13	39.44	20
21	43.22	43.18	41.64	48.26	45.45	41.38	40.50	40.03	39.33	39.04	39.15	39.53	21
22	43.18	43.16	41.59	48.28	44.80	41.30	40.41	39.98	39.30	38.47	39.07	39.48	22
23	43.49	42.88	41.60	48.04	43.93	41.69	40.36	39.68	39.34	38.95	39.27	39.33	23
24	43.69	42.00	41.90	47.38	43.60	41.56	40.35	39.64	39.33	38.96	39.51	39.32	24
25	43.78	41.91	42.45	46.97	43.46	41.32	40.35	39.62	39.16	38.99	39.27	39.28	25
26	43.77	42.74	42.78	46.64	43.95	40.99	40.50	39.77	39.15	39.12	39.19	39.32	26
27	43.76	43.03	42.92	46.52	43.28	40.93	40.61	39.61	39.23	39.21	39.10	39.37	27
28	43.75	43.14	43.00	46.36	42.88	40.72	40.58	39.64	39.33	39.08	39.16	39.28	28
29	43.38	43.19	43.00	46.05		40.68	40.60	39.65	39.40	38.96	39.13	39.23	29
30	43.17	43.22	42.97	45.70		40.78	40.72	39.79	39.37	38.92	39.26	39.27	30
31	43.10		43.28	45.53		40.69		39.64		38.87	39.29		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E	DATE	TIME	GAGE HT	DATE	TIME	GAGE HT	DATE	TIME	GAGE HT	DATE	TIME	GAGE HT
— ESTIMATED	1-22-70	0030	48.38									
NR — NO RECORD	3-8-70	1600	48.85									
NF — NO FLOW												

LOCATION				MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M D B & M		OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	FROM	TO	REF D ATUM
				CFS	GAGE HT	DATE						
37 26 52	121 00 44	NW 8 6S 9E		30760	58.81	2-26-64	OCT 64-DATE	41-SEP 65		1959	1959	USED
										1959	3.51	USGS USED

Station located at Crows Landing Road Bridge, 4.3 miles northeast of Crows Landing. Flows regulated by upstream reservoirs and diversions.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT

(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1970	B07200	SAN JOAQUIN RIVER AT PATTERSON BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	34.94E	37.13	37.28	37.38	39.66	36.91	34.30	34.49	33.41	33.06	32.36	32.78	1
2	34.84E	37.08	37.33	37.33	39.43	37.17	34.27	34.46	33.43	32.98	32.51	32.78	2
3	34.89E	36.98	37.33	36.69	39.00	37.41	34.17	34.42	33.35	32.76	32.86	32.96	3
4	34.92E	36.67	37.28	36.40	38.75	39.02	34.03	34.36	33.02	32.90	32.81	33.05	4
5	34.87E	36.97	37.27	36.32	39.30	40.80	34.12	34.31	32.90	33.08	32.79	33.06	5
6	34.84E	37.20	37.27	36.29	39.30	41.77	34.31	34.13	32.85	33.26	32.84	33.31	6
7	34.89E	37.35	37.29	36.28	39.20	42.25	34.33	33.91	32.89	33.00	32.73	33.25	7
8	34.76E	37.53	37.29	36.27	39.19	42.56	34.25	33.94	33.05	32.74	32.69	32.95	8
9	34.79E	37.65	37.27	36.11	39.47	42.57	34.18	33.89	33.23	32.60	32.79	32.81	9
10	34.84E	37.69	37.22	35.90	40.06	42.13	34.10	33.97	33.13	32.45	32.99	32.97	10
11	34.79E	37.57	37.18	36.02	40.27	40.41	34.05	34.18	33.21	32.46	32.80	33.12	11
12	34.76E	37.41	37.15	36.28	40.01	39.99	34.12	34.23	33.18	32.68	32.79	33.15	12
13	34.84E	37.33	36.80	36.16	39.91	39.28	34.32	34.22	33.20	32.83	32.85	33.22	13
14	34.84E	37.67	36.43	36.15	39.66	38.47	34.40	34.07	33.18	32.61	32.76	33.31	14
15	34.92E	37.95	36.29	36.18	39.31	37.53	34.35	34.02	33.31	32.55	32.78	33.25	15
16	35.57E	37.82	36.22	36.94	39.00	36.94	34.29	33.95	33.06	32.39	33.01	33.22	16
17	36.57E	36.70	36.15	38.17	38.87	36.55	34.35	34.00	33.09	32.45	33.03	33.12	17
18	37.08E	36.14	36.10	39.30	38.93	36.15	34.20	33.88	32.99	32.43	32.78	33.27	18
19	37.10E	36.78	36.09	40.17	38.28	35.97	34.28	33.83	32.98	32.49	32.83	33.30	19
20	36.86E	37.10	35.91	41.45	39.49	35.76	34.17	33.79	32.96	32.65	32.81	33.30	20
21	36.82E	37.20	35.68	42.15	39.49	35.50	34.16	33.72	33.05	32.45	32.82	33.39	21
22	36.78E	37.20	35.63	42.33	39.08	35.37	34.05	33.62	33.02	32.36	32.74	33.42	22
23	37.12E	37.05	35.62	42.25	38.19	35.67	33.95	33.37	32.98	32.36	32.91	33.22	23
24	37.36E	36.22	35.81	41.81	37.75	35.60	34.03	33.30	33.02	32.33	33.35	33.14	24
25	37.56E	35.92	36.28	41.38	37.48	35.35	34.03	33.30	32.85	32.46	33.08	33.12	25
26	37.56E	36.62	36.66	41.04	37.85	34.97	34.28	33.27	32.78	32.60	32.96	33.17	26
27	37.56E	37.00	36.79	40.87	37.47	34.85	34.55	33.26	32.96	32.74	32.82	33.26	27
28	37.56E	37.14	36.88	40.73	36.94	34.65	34.48	33.30	33.08	32.46	32.83	33.26	28
29	37.50	37.20	36.92	40.48		34.54	34.45	33.29	33.15	32.39	32.87	33.17	29
30	37.26	37.23	36.90	40.13		34.63	34.58	33.26	33.06	32.32	33.06	33.24	30
31	37.16		37.14	39.82		34.42		33.30		32.31	32.98		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	GAGE HT	DATE	TIME	GAGE HT	DATE	TIME	GAGE HT	DATE	TIME	GAGE HT
1-22-70	1730	42.35									
3- 9-70	0100	42.65									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 29 52	121 04 52	SW15 5S 8E		54.0	6-13-38	OCT 69-DATE	APR 38-SEP 66	1938	1959	0.00	USED
				50.47a	6-13-38			1959		0.00	USCGS
			5460b	42.65	3- 9-70			1959		3.53	USED
Station located 1000 feet downstream on left bank from the Patterson-Turlock Bridge, 3.1 miles northeast of Patterson. Station reactivated 10-1-69.											
a Reflects present datum.											
b Maximum discharge since station was rated in October 1969.											

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1970	804175	TUOLUMNE RIVER AT LA GRANGE BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	70.95	70.63	70.94	69.38	72.78	72.13	67.64	67.53	68.18	69.23	67.49	67.30	1
2	71.13	70.59	70.74	69.56	72.14	72.22	67.61	67.53	70.00	69.10	67.49	67.36	2
3	71.14	71.01	70.26	69.39	72.13	72.16	67.61	67.53	70.21	68.18	67.49	67.36	3
4	71.11	70.90	69.99	69.38	72.13	72.13	67.60	67.98	70.03	67.53	67.49	67.32	4
5	71.08	71.17	69.55	70.51	72.13	72.12	67.60	69.34	69.05	67.52	67.49	67.29	5
6	71.16	71.01	69.41	70.39	72.13	72.45	67.60	68.78	67.57	67.51	67.49	67.28	6
7	69.95	70.82	69.41	70.44	72.13	72.76	67.58	68.46	67.56	67.51	67.49	67.31	7
8	68.27	70.61	69.51	70.16	72.13	72.76	67.56	68.82	67.56	67.51	67.49	67.37	8
9	68.55	70.60	69.50	70.11	72.13	72.65	67.56	69.36	67.79	67.51	67.48	67.28	9
10	68.31	70.85	69.47	69.40	72.13	72.52	67.61	69.36	69.10	67.50	67.47	67.26	10
11	68.22	70.74	69.50	69.38	72.07	72.23	67.65	69.35	70.11	67.50	67.47	67.26	11
12	68.18	70.81	69.44	69.79	72.13	71.87	67.61	69.36	70.95	67.50	67.47	67.30	12
13	69.37	71.13	69.42	69.96	72.14	71.87	67.55	69.37	72.12	67.51	67.47	67.35	13
14	69.85	70.76	69.42	70.60	72.15	71.88	67.62	69.36	70.36	67.51	67.47	67.25	14
15	70.33	70.54	69.47	72.02	72.15	71.86	67.58	69.35	69.31	67.51	67.47	67.25	15
16	69.86	70.50	69.57	72.75	72.13	70.87	67.55	69.34	68.27	67.51	67.47	67.28	16
17	69.76	71.00	69.55	74.99	72.20	70.14	67.55	69.30	67.57	67.51	67.48	67.29	17
18	69.66	70.83	69.53	75.06	72.17	69.98	67.55	69.37	67.57	67.50	67.47	67.23	18
19	69.63	70.45	69.44	75.04	72.17	70.00	67.55	69.38	67.75	67.50	67.47	67.23	19
20	70.25	70.36	69.40	75.02	72.16	70.10	67.55	68.42	67.69	67.50	67.47	67.23	20
21	70.63	70.23	68.85	75.06	72.17	70.00	67.55	67.57	70.35	67.50	67.47	67.23	21
22	70.64	69.70	69.18	75.18	72.18	70.10	67.56	67.92	71.47	67.51	67.47	67.23	22
23	70.82	69.54	69.53	75.21	72.18	69.86	67.55	67.55	71.02	67.51	67.48	67.23	23
24	70.96	70.49	69.42	75.21	72.18	69.60	67.54	67.53	70.96	67.51	67.48	67.26	24
25	71.08	70.81	69.43	75.19	72.19	69.61	67.54	67.91	71.40	67.50	67.47	67.34	25
26	71.08	70.78	69.47	75.17	72.18	69.04	67.54	67.56	70.37	67.50	67.47	67.34	26
27	70.98	70.43	69.41	75.15	72.19	68.03	67.54	67.50	70.25	67.50	67.47	67.33	27
28	70.80	70.40	69.40	75.12	71.96	67.80	67.54	67.50	70.46	67.49	67.47	67.32	28
29	70.64	70.26	69.59	74.74		67.62	67.54	67.49	70.73	67.49	67.47	67.30	29
30	70.61	70.24	69.29	73.35		67.98	67.54	67.49	69.31	67.49	67.31	67.28	30
31	70.58		69.39	72.80		68.01		67.62		67.49	67.29		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED

NR - NO RECORD

NF - NO FLOW

DATE	TIME	GAGE HT	DATE	TIME	GAGE HT	DATE	TIME	GAGE HT	DATE	TIME	GAGE HT
1-23-70	0045	75.23									
3- 9-70	1215	72.87									
6-13-70	0930	72.52									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF DATUM
			CFS	GAGE HT	DATE			FROM	TO	
37 39 54	120 27 40	NW20 3S 14E	52200	88.0 86.29	12- 8-50 1-24-69	OCT 36-SEP 61 OCT 61-DATE		1937		1.76 USGS

Station located at highway bridge, immediately north of La Grange. Flow regulated by La Grange and Don Pedro Dams. Divisions to Modesto and Owens Canals are above La Grange Dam. Drainage area is 1,540 square miles. To change gage height to elevation add 100 feet.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	B04150	TUOLUMNE RIVER AT HICKMAN BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	72.12	72.16	71.96	71.27	73.80	73.15	70.35	69.94	69.85	70.89	69.76	69.77	1
2	72.24	72.19	72.17	71.27	73.47	73.29	70.10	69.88	70.86	71.13	69.77	69.74	2
3	72.27	72.24	71.93	71.36	73.27	73.22	70.02	69.89	71.65	70.95	69.77	69.74	3
4	72.28	72.43	71.82	71.27	73.25	73.18	70.00	69.88	71.57	70.20	69.77	69.74	4
5	72.24	72.41	71.50	71.48	73.24	73.22	69.98	70.60	71.50	69.98	69.79	69.75	5
6	72.28	72.59	71.35	71.93	73.23	73.25	69.95	71.06	70.40	69.91	69.80	69.76	6
7	72.11	72.39	71.31	71.88	73.23	73.68	69.93	70.60	69.99	69.86	69.79	69.75	7
8	71.18	72.32	71.32	71.84	73.22	73.69	69.91	70.58	69.86	69.82	69.77	69.71	8
9	70.96	72.21	71.36	71.79	73.22	73.67	69.88	71.10	69.90	69.78	69.78	69.71	9
10	70.95	72.23	71.34	71.65	73.22	73.49	69.88	71.16	70.17	69.75	69.78	69.72	10
11	70.68	72.30	71.33	71.31	73.18	73.42	69.89	71.15	71.40	69.78	69.79	69.72	11
12	70.56	72.27	71.33	71.31	73.19	73.00	69.93	71.16	71.74	69.82	69.78	69.72	12
13	70.69	72.44	71.30	71.61	73.21	72.97	69.95	71.16	73.09	69.83	69.78	69.73	13
14	71.57	72.41	71.29	71.78	73.22	72.97	70.00	71.17	72.36	69.80	69.77	69.75	14
15	71.91	72.26	71.28	72.85	73.22	72.95	69.94	71.16	71.24	69.81	69.77	69.74	15
16	71.86	72.17	71.34	73.35	73.18	72.73	69.92	71.15	71.05	69.79	69.77	69.74	16
17	71.68	72.22	71.37	75.16	73.25	71.83	69.89	71.12	70.20	69.78	69.74	69.74	17
18	71.76	72.32	71.36	75.87	73.22	71.92	69.85	71.16	69.98	69.78	69.73	69.73	18
19	71.73	72.01	71.36	75.86	73.20	71.58	69.86	71.16	69.93	69.77	69.73	69.74	19
20	71.78	71.98	71.31	75.85	73.19	71.89	69.81	71.10	70.03	69.78	69.77	69.75	20
21	72.18	71.92	71.26	75.92	73.19	71.68	69.85	70.24	71.21	69.78	69.78	69.75	21
22	72.20	71.72	70.83	76.07	73.18	71.77	69.84	69.98	71.97	69.78	69.78	69.74	22
23	72.23	71.49	71.36	76.15	73.18	71.73	69.87	70.18	72.58	69.78	69.77	69.73	23
24	72.37	71.61	71.36	76.15	73.18	71.50	69.88	69.98	71.96	69.78	69.77	69.74	24
25	72.43	71.14	71.32	76.14	73.20	71.48	69.87	69.90	72.39	69.79	69.78	69.73	25
26	72.47	72.15	71.32	76.12	73.21	71.42	69.88	70.14	72.29	69.80	69.78	69.73	26
27	72.39	72.07	71.32	76.10	73.21	70.75	69.86	69.94	71.58	69.82	69.80	69.77	27
28	72.34	71.89	71.28	76.05	73.09	70.54	69.88	69.85	72.10	69.76	69.81	69.77	28
29	72.22	71.83	71.29	75.96		70.20	69.86	69.82	71.51	69.77	69.78	69.77	29
30	72.19	71.81	71.31	74.67		70.07	69.89	69.82	72.08	69.74	69.77	69.78	30
31	72.18		71.27	73.84		70.26		69.82		69.76	69.80		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED

NR - NO RECORD

NF - NO FLOW

DATE	TIME	GAUGE HT.	DATE	TIME	GAUGE HT.	DATE	TIME	GAUGE HT.	DATE	TIME	GAUGE HT.
1-25-70	0400	76.16	6-13-70	1900	73.34						

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	1 4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAUGE HEIGHT ONLY	PERIOD		ZERO ON GAUGE	REF. DATUM	
			CFS	GAUGE HT.	DATE			FROM	TO			
37 38 10	120 45 14	NW34 3S 11E	59000	96.2	12-8-50	JUL 32-OCT 36			1932		-1.13	USCGS
						JAN 37-MAR 37						
						JUL 37-FEB 38						
						JUL 38-DEC 38						
						MAR 39-DATE						

Station located at Hickman-Waterford road bridge, immediately south of Waterford. Flow regulated by reservoirs and powerplants. In August 1964, this station was moved approximately one-quarter mile downstream to a point immediately upstream of the new Hickman-Waterford road bridge.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1970	804130	DRY CREEK NEAR MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	68.38	67.57	67.63	67.63	69.21	68.32	68.22	68.72	68.30	68.70	68.13	68.27	1
2	68.40	67.56	67.62	67.59	69.14	72.98	68.23	68.46	68.36	69.70	68.08	68.12	2
3	68.34	67.56	67.63	67.59	69.09	71.54	68.25	68.40	68.28	69.24	68.10	68.09	3
4	68.42	67.56	67.63	67.58	68.86	69.26	68.28	68.38	68.26	68.24	68.10	68.18	4
5	68.35	67.59	67.63	67.56	68.30	72.94	68.27	68.51	68.28	68.28	68.07	68.11	5
6	68.39	67.93	67.59	67.52	68.22	71.65	68.30	68.33	68.26	68.19	68.05	68.09	6
7	68.40	68.29	67.57	67.51	68.18	69.39	68.24	68.28	68.22	68.10	68.03	68.09	7
8	68.45	67.99	67.56	67.50	68.13	68.76	68.26	68.28	68.26	68.16	68.00	68.10	8
9	68.38	67.78	67.53	67.52	68.07	68.48	68.32	68.41	68.28	68.15	68.11	68.09	9
10	68.53	67.68	67.50	67.58	68.03	68.43	68.27	68.75	68.71	68.14	68.12	68.13	10
11	68.48	67.61	67.50	67.53	67.99	68.31	68.27	69.08	69.65	68.11	68.13	68.07	11
12	68.52	67.58	67.50	67.70	67.95	68.27	68.39	69.27	69.56	68.18	68.13	68.02	12
13	68.49	67.60	67.52	68.58	67.84	68.19	68.48	69.33	69.20	68.18	68.05	68.05	13
14	68.52	67.57	67.52	69.14	67.93	68.12	68.53	69.33	69.07	68.12	68.07	68.04	14
15	69.16E	67.56	67.50	76.49	68.66	68.08	68.75	69.26	68.68	68.10	68.09	68.07	15
16	69.25E	67.34	67.50	74.03	68.56	68.03	68.80	69.06	68.44	68.08	68.04	68.14	16
17	68.46E	67.53	67.50	78.32	68.28	68.01	68.54	68.85	68.38	68.02	67.99	68.07	17
18	68.14E	67.52	67.50	71.27	69.33	67.97	68.50	68.90	68.38	68.09	67.98	68.20	18
19	67.97E	67.53	67.50	69.85	68.98	68.14	68.55	68.42	68.30	68.03	68.06	68.26	19
20	67.85E	67.58	67.55	69.17	68.50	68.55	68.60	68.37	68.25	68.02	68.07	68.27	20
21	67.76E	67.58	67.56	69.85	68.30	68.34	68.58	68.32	68.29	68.01	68.13	68.32	21
22	67.70E	67.57	67.63	75.60	68.18	68.09	68.61	68.38	68.20	68.12	68.14	68.27	22
23	67.67	67.57	67.67	70.83	68.10	67.91	68.60	68.40	68.15	68.08	68.09	68.31	23
24	67.63	67.60	67.63	69.47	68.05	67.92	68.65	68.35	68.16	68.08	68.12	68.24	24
25	67.62	67.58	67.63	69.06	68.02	67.98	68.70	68.36	68.20	68.08	68.14	68.16	25
26	67.60	67.60	67.86	68.97	67.98	68.05	68.56	68.38	68.23	68.08	68.13	68.25	26
27	67.58	67.61	68.86	69.02	67.93	68.14	68.62	68.38	68.25	68.02	68.09	68.30	27
28	67.57	67.62	68.18	70.16	68.04	68.19	68.79	68.26	68.32	68.10	68.08	68.35	28
29	67.57	67.63	67.90	70.02		68.28	68.67	68.29	68.32	68.08	68.15	68.40	29
30	67.57	67.64	67.77	69.52		68.26	68.78	68.24	68.28	68.08	68.12	68.32	30
31	67.58		67.69	69.32		68.25		68.26		68.12	68.33		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
E - ESTIMATED	1-15-70	1300	80.01	3-2-70	1630	76.82			
NR - NO RECORD	1-17-70	0500	81.21	3-5-70	1730	76.17			
NF - NO FLOW	1-2-70	0620	77.50						

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R MDB & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD	ZERO ON GAGE	REF DATUM	
			CFS	GAGE HT	DATE						
37 39 26	120 55 19	SE24 3S 9E	7710	88.04	12-23-55	MAR 41-DATE		1941		0.00	USCGS

Station located 0.1 mile downstream from Claus Road bridge, 4 miles east of Modesto. Tributary to Tuolumne River. June 1930 to March 1941 records available for a site 2.5 miles downstream. This is a Department of Water Resources-Modesto Irrigation District cooperative station. Drainage area is 142.3 square miles.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	B04120	TUOLUMNE RIVER AT MODESTO

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	42.60	42.82	42.28	41.88	45.90	43.90	41.49	41.43	41.19	41.90	41.11	41.14	1
2	42.65	42.84	42.59	41.88	45.50	44.87	41.45	41.39	40.89	41.98	41.14	41.09	2
3	42.73	42.81	42.49	41.94	44.61	45.22	41.40	41.36	42.05	41.86	41.13	41.07	3
4	42.82	43.11	42.33	41.89	44.46	44.37	41.39	41.35	42.20	41.56	41.07	41.10	4
5	42.89	43.14	42.19	41.87	44.30	44.98	41.37	41.39	42.16	41.32	41.10	41.08	5
6	42.90	43.51	42.00	42.35	44.24	45.08	41.35	41.82	41.95	41.24	41.09	41.08	6
7	42.90	43.36	41.92	42.37	44.20	45.09	41.34	41.68	41.50	41.18	41.06	41.09	7
8	42.43	43.11	41.91	42.40	44.17	45.32	41.35	41.63	41.41	41.14	41.07	41.07	8
9	41.92	42.89	41.94	42.29	44.13	45.27	41.35	41.65	41.36	41.14	41.08	41.06	9
10	41.91	42.85	41.94	42.27	44.10	44.99	41.34	41.98	41.45	41.15	41.10	41.07	10
11	41.78	43.02	41.92	41.99	44.07	44.78	41.33	42.02	42.09	41.10	41.08	41.11	11
12	41.67	42.95	41.93	41.93	43.96	44.10	41.37	42.01	43.03	41.16	41.11	41.07	12
13	41.62	43.00	41.90	42.14	44.06	43.67	41.40	42.04	42.72	41.15	41.08	41.08	13
14	41.90	43.28	41.89	42.34	44.07	43.63	41.43	42.04	42.05	41.11	41.09	41.08	14
15	42.35	42.98	41.89	44.46	44.14	43.58	41.42	42.02	41.77	41.08	41.11	41.07	15
16	42.63	42.81	41.90	45.38	44.15	43.53	41.43	42.01	41.48	41.10	41.08	41.08	16
17	42.27	42.75	41.94	49.01	44.17	42.57	41.40	41.81	41.38	41.08	41.07	41.07	17
18	42.36	42.85	41.95	50.93	44.32	42.34	41.39	41.94	41.34	41.11	41.05	41.11	18
19	42.43	42.58	41.95	51.04	44.28	42.20	41.41	41.72	41.52	41.12	41.08	41.12	19
20	42.41	42.44	41.92	50.98	44.17	42.36	41.40	41.95	42.26	41.11	41.07	41.16	20
21	42.66	42.38	41.90	51.07	44.11	42.29	41.34	41.66	42.98	41.06	41.10	41.14	21
22	42.81	42.32	41.73	52.31	44.09	42.27	41.37	41.47	42.74	41.09	41.11	41.11	22
23	42.83	42.09	41.82	51.96	44.07	42.26	41.38	41.31	42.76	41.10	41.10	41.13	23
24	42.99	42.01	41.94	51.68	44.06	42.15	41.42	41.44	43.00	41.09	41.11	41.12	24
25	43.12	42.45	41.92	51.56	44.05	42.07	41.42	41.16	42.46	41.11	41.12	41.10	25
26	43.24	42.56	41.91	51.51	44.05	42.06	41.39	41.39	42.47	41.11	41.13	41.10	26
27	43.20	42.58	42.00	51.47	44.06	41.89	41.42	41.42	42.45	41.10	41.10	41.13	27
28	43.12	42.38	41.94	51.52	44.04	41.60	41.40	41.38	42.64	41.10	41.10	41.13	28
29	42.96	42.34	41.91	51.50		41.56	41.38	41.16	42.10	41.10	41.12	41.14	29
30	42.87	42.29	41.95	50.06		41.48	41.42	41.23	42.08	41.07	41.10	41.15	30
31	42.83		41.88	47.02		41.41		41.08		41.07	41.13		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED
NR - NO RECORD
NF - NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-19-70	0730	51.07	3- 5-70	2200	45.97						
1-22-70	1230	52.65									
3- 2-70	2200	46.21									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
37 37 38	120 59 20	SW33 38 9E	57000	69.19	12-9-50	JAN 95-DEC 96 MAR 40-DATE	1678-1684 1891-1894	1940		0.00	USCGS

Station located at U. S. Highway 99 Bridge. Records furnished by U. S. Geological Survey. Flow records are published in the U. S. Geological Survey report "Surface Water Records of California". Drainage area is 1,884 square miles. This station equipped with DWR radio telemeter. Flows regulated by upstream reservoirs and diversions.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1970	B04105	TUOLUMNE RIVER AT TUOLUMNE CITY

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	28.10	28.48	26.81	25.62	32.98	30.05	24.11	24.33	23.99	26.86	23.70	23.72	1
2	28.03	28.48	27.40	25.60	32.36	30.49	24.72	24.26	23.94	25.74	23.76	23.63	2
3	28.27	28.47	27.62	25.65	31.47	31.53	24.72	24.22	25.06	25.85	23.75	23.57	3
4	28.38	28.75	27.13	25.65	31.01	30.76	24.46	24.20	26.11	25.30	23.66	23.56	4
5	28.60	28.97	26.78	25.53	30.84	31.05	24.41	24.17	26.14	24.57	23.65	23.59	5
6	28.57	29.30	26.24	26.30	30.78	32.10	24.37	24.79	26.01	24.27	23.65	23.62	6
7	28.64	29.32	25.93	26.91	30.72	32.00	24.33	25.18	24.76	24.10	23.57	23.61	7
8	28.00	29.05	25.83	26.97	30.68	32.47	24.35	24.84	24.28	23.97	23.55	23.60	8
9	26.50	28.74	25.84	26.81	30.66	32.59	24.32	24.85	24.13	23.90	23.56	23.55	9
10	26.05	28.57	25.85	26.67	30.71	32.46	24.29	25.55	24.08	23.90	23.58	23.56	10
11	25.83	28.70	25.80	26.16	30.80	32.00	24.25	25.81	24.60	23.87	23.57	23.60	11
12	25.44	28.73	25.79	25.65	30.73	31.32	24.32	25.86	26.09	23.95	23.60	23.54	12
13	25.30	28.72	25.76	25.85	30.74	30.34	24.40	25.93	27.19	23.93	23.57	23.53	13
14	25.57	29.07	25.70	26.60	30.72	30.04	24.42	25.93	29.19	23.83	23.57	23.59	14
15	26.84	28.92	25.66	28.14	30.67	29.84	24.45	25.89	27.93	23.73	23.62	23.56	15
16	27.81	28.58	25.69	31.10	30.68	29.66	24.46	25.87	26.14	23.68	23.62	23.56	16
17	27.34	28.36	25.77	32.90	30.57	28.72	24.40	25.89	25.52	23.70	23.60	23.55	17
18	27.08	28.37	25.82	35.62	30.68	27.53	24.35	25.80	24.57	23.73	23.54	23.58	18
19	27.53	28.06	25.79	36.33	30.77	27.35	24.39	25.72	24.77	23.76	23.54	23.62	19
20	27.47	27.47	25.78	36.64	30.69	27.22	24.38	25.64	24.08	23.76	23.57	23.67	20
21	27.77	27.33	25.70	36.90	30.63	27.40	24.25	25.42	24.13	23.63	23.57	23.68	21
22	28.38	27.14	25.50	37.56	30.58	27.12	24.24	24.61	25.66	23.60	23.60	23.62	22
23	28.49	26.64	25.16	37.93	30.45	27.11	24.23	24.36	27.26	23.70	23.64	23.61	23
24	28.68	26.23	25.67	37.85	30.32	26.89	24.28	24.39	27.83	23.68	23.62	23.61	24
25	28.93	26.79	25.72	37.66	30.26	26.50	24.33	24.20	27.37	23.66	23.64	23.62	25
26	29.11	27.52	25.65	37.51	30.25	26.42	24.34	24.14	28.06	23.71	23.63	23.60	26
27	29.16	27.59	25.81	37.42	30.25	26.19	24.31	24.21	27.49	23.68	23.62	23.61	27
28	29.05	27.29	25.82	37.38	30.21	25.36	24.29	24.11	26.80	23.67	23.61	23.64	28
29	28.88	27.04	25.68	37.35	25.15	25.15	24.26	24.02	27.37	23.67	23.61	23.63	29
30	28.63	26.87	25.72	36.79	24.91	24.25	24.25	23.98	26.87	23.68	23.64	23.66	30
31	28.52		25.66	34.68		24.70		23.95		23.63	23.67		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED
NR — NO RECORD
NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-22-70	2200	37.95									
6-14-70	1130	29.47									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY		PERIOD		REF DATUM
			CFS	GAGE HT	DATE				FROM	TO	
37° 36' 12"	121° 00' 00"	NW 1/4 48 SE	46.65	12- 9-5	1-3 -DATE				196	1969	USED
			37900	42.86	1-27-69				196	1969	USED

Station located at highway bridge, 3.35 miles above mouth. Backwater at times, from the San Joaquin River, affects the stage-discharge relationship. Drainage area is 1,896 square miles. Flows regulated by upstream reservoirs and diversions.

a. Reflects present datum.
b. Maximum discharge since Department of Water Resources began operation of station in April 1966.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1970	B07040	SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	19.62	20.00	19.13	18.97	25.42	21.23	16.14	16.07	15.63	17.26E	14.48	14.85	1
2	19.38	19.96	19.34	19.04	24.38	21.44	16.19	15.95	15.85	16.35E	14.63	14.66	2
3	19.39	19.93	19.60	18.78	23.62	22.48	15.92	15.93	16.31	16.01E	14.70	14.65	3
4	19.48	19.84	19.41	18.35	23.09	22.87	15.86	15.85	17.14	15.73	14.68	14.68	4
5	19.64	19.96	19.22	18.17	23.15	23.35	15.82	15.74	17.20	15.38	14.57	14.80	5
6	19.60	20.23	18.95	18.30	23.16	24.32	15.86	15.92	17.01	15.30	14.70	14.92	6
7	19.62	20.42	18.77	18.74	23.01	24.64	15.96	16.16	16.15	15.30	14.62	15.05	7
8	19.41	20.38	18.72	18.68	22.86	24.86	15.96	15.90	15.60	14.99	14.53	14.90	8
9	18.72	20.30	18.71	18.68	22.79	25.02	15.86	15.90	15.47	14.79	14.60	14.69	9
10	18.26	20.19	18.70	18.54	22.89	24.96	15.77	16.30	15.71	14.78	14.62	14.68	10
11	18.07	20.17	18.63	18.38	23.10	24.52	15.70	16.60	16.71	14.73	14.54	14.77	11
12	17.79	20.16	18.61	18.17	23.08	23.85	15.81	16.74	17.17	14.75	14.50	14.92	12
13	17.73	20.08	18.56	18.19	22.98	22.81	16.02	16.76	16.91	15.01	14.58	14.98	13
14	17.71	20.21	18.29	18.51	22.95	22.56	16.17	16.77	18.03	14.86	14.56	15.07	14
15	18.45	20.44	18.17	19.13	22.67	21.60	16.11	16.72	18.03	14.62	14.54	15.02	15
16	19.18	20.33	18.03	21.14	22.49	21.08	16.08	16.68	16.75	14.60	14.70	14.93	16
17	19.38	19.94	18.01	22.47	22.31	20.57	16.08	16.95	16.13	14.49	14.73	14.91	17
18	19.35	19.38	18.00	25.25	22.28	19.61	15.98	17.20	15.60	14.52	14.62	14.93	18
19	19.64	19.33	17.98	28.02	22.44	19.33	15.97	17.21	15.22	14.59	14.39	15.14	19
20	19.63	19.28	17.98	28.38	22.63	19.03	15.94	17.20	15.06	14.62	14.56	15.28	20
21	19.63	19.28	17.79	28.58	22.68	19.06	15.81	17.01	15.12	14.53	14.57	15.32	21
22	19.92	19.21	17.68	28.84	22.63	18.76	15.73	16.45	15.85E	14.22	14.65	15.30	22
23	20.04	19.05	17.41	30.90	22.31	18.69	15.64	15.64	16.75E	14.38	14.67	15.15	23
24	20.22	18.59	17.64	30.73	21.94	18.60	15.64	15.49	17.56E	14.39	14.85	15.11	24
25	20.42	18.28	17.91	29.82	21.71	18.12	15.83	15.74	17.22E	14.42	14.82	15.06	25
26	20.56	18.83	18.32	29.44	21.64	17.77	15.97	15.84	17.36E	14.52	14.77	15.09	26
27	20.62	19.23	18.64	29.24	21.67	17.45	16.17	15.74	17.46E	14.65	14.77	15.22	27
28	20.58	19.30	18.78	29.11	21.40	16.90	16.17	15.64	16.89E	14.64	14.71	15.25	28
29	20.51	19.20	18.79	28.86	21.61	16.61	15.98	15.55	17.71E	14.49	14.75	15.18	29
30	20.25	19.16	18.79	28.34	21.62	16.52	16.00	15.72	17.85	14.42	14.85	15.15	30
31	20.08		18.86	27.18	21.68	16.28		15.77		14.40	14.91		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E - ESTIMATED	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
NR - NO RECORD	1-23-70	1800	31.35a									
NF - NO FLOW	3- 9-70	2000	25.05									

a - SEE (a) BELOW

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1 4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 38 28	121 13 37	SW29 3S 7E		38.31a	1-27-69	JAN 50-MAR 52	SEP 43-DEC 49	1943	1959	0.00	USED
						OCT 65-DATE	APR 52-SEP 65	1959		0.00	USCGS
									1959	3.41	USED
Station located at State Highway 132 Bridge, 13 miles west of Modesto, two miles upstream from mouth of the Stanislaus River. Gage height-discharge relation affected by backwater from the Stanislaus River during high flows in the Stanislaus. Flows regulated by upstream reservoirs and diversions.											
a This maximum gage height of record does not represent the maximum discharge of record as the station was affected by backwater from the Stanislaus River.											

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	B03175	STANISLAUS RIVER AT ORANGE BLOSSOM BRIDGE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	3.78	3.72	3.65	5.98	7.28	6.75	4.37	1.50	6.39	2.29	1.36	1.33	1
2	3.75	3.66	3.80	4.52	6.85	9.08	2.39	1.54	6.82	1.67	1.39	1.28	2
3	3.73	2.19	3.76	4.07	7.50	8.66	1.99	1.57	7.42	1.52	1.39	1.29	3
4	3.79	2.10	3.74	4.27	7.91	7.82	1.77	1.50	7.40	1.50	1.43	1.35	4
5	3.78	3.62	3.73	4.27	7.55	8.00	1.72	1.50	6.11	1.50	1.38	1.35	5
6	3.68	2.29	3.71	3.66	7.28	7.50	1.74	1.60	5.24	1.45	1.38	1.38	6
7	3.67	2.15	3.68	1.90	6.97	7.06	1.66	3.75	4.09	1.47	1.38	1.35	7
8	3.66	2.08	3.71	4.29	6.77	7.06	1.69	3.76	3.66	1.48	1.38	1.30	8
9	3.62	2.07	3.58	4.34	6.58	6.87	1.63	3.74	5.79	1.54	1.38	1.30	9
10	3.50	2.08	3.23	4.31	6.53	6.55	1.62	3.73	8.25	1.40	1.35	1.29	10
11	3.57	2.46	3.71	4.31	6.50	6.53	1.61	3.82	6.04	1.37	1.35	1.28	11
12	3.70	2.43	3.75	4.31	6.44	6.31	1.61	4.19	3.92	1.40	1.34	1.26	12
13	3.67	2.43	3.73	4.32	6.56	5.98	1.64	3.96	2.42	1.39	1.36	1.30	13
14	3.60	2.43	3.73	5.38	5.81	5.99	1.58	3.85	2.11	1.37	1.44	1.32	14
15	3.36	2.46	3.73	6.17	5.81	5.99	1.57	4.65	1.77	1.39	1.45	1.33	15
16	3.37	2.46	3.67	8.76	5.83	6.00	1.57	6.85	1.63	1.35	1.39	1.32	16
17	3.36	2.42	3.75	15.94	5.91	6.01	1.60	6.82	1.57	1.37	1.37	1.31	17
18	3.38	2.41	3.72	13.81	6.16	6.01	1.63	6.81	1.50	1.43	1.40	1.37	18
19	3.37	2.38	3.76	12.46	6.53	6.00	1.58	6.81	1.53	1.42	1.40	1.36	19
20	3.37	2.37	3.76	11.78	6.55	6.02	1.60	6.44	1.45	1.34	1.36	1.32	20
21	3.39	2.78	3.84	13.05	6.56	5.96	1.60	5.34	2.59	1.33	1.38	1.30	21
22	3.39	3.82	3.83	18.54	6.57	5.73	1.64	2.48	3.87	1.32	1.38	1.29	22
23	3.42	3.83	3.76	14.49	6.57	5.28	1.58	3.44	4.09	1.34	1.38	1.30	23
24	3.44	3.81	4.38	12.96	6.57	4.16	1.58	6.18	3.30	1.42	1.40	1.30	24
25	3.53	3.82	6.21	12.94	6.44	3.39	1.57	6.08	3.00	1.36	1.43	1.30	25
26	3.50	3.86	6.13	12.93	6.13	2.39	1.61	5.25	2.82	1.36	1.40	1.37	26
27	3.53	3.85	6.09	12.70	6.13	2.43	1.65	5.30	1.89	1.35	1.43	1.40	27
28	3.62	3.84	6.06	11.66	6.13	3.23	1.64	5.53	6.01	1.42	1.41	1.31	28
29	3.81	6.06	10.27			3.05	1.49	6.25	4.58	1.41	1.42	1.40	29
30	3.72	3.82	6.03	8.95		3.08	1.50	5.68	2.32	1.38	1.40	1.31	30
31	3.70		6.01	7.31		3.85		5.50		1.35	1.39		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
E - ESTIMATED	1-17-70	1200	18.15						
NR - NO RECORD	1-22-70	1400	19.23						
NF - NO FLOW	3- 2-70	0015	9.36						

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1.4 SEC T & R M D B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 47 18	120 45 41	SW 4 2S 11E	62000	31.8	12-23-55	JUN 28-DEC 31 APR 40-DATE				117.21	USCGS

Station located at bridge, 5.0 miles east of Oakdale. Flow regulated by reservoirs and powerplants. Drainage area is 1,020 square miles. Equipped with radio telemeter.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO	STATION NAME
1970	803125	STANISLAUS RIVER AT RIPON

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	40.93	39.55	39.49	43.74	48.92	44.74	40.53	36.69	43.09	38.67	36.21	36.58	1
2	40.70	39.56	39.32	43.66	48.00	46.91	40.49	36.68	44.31	38.14	36.15	36.52	2
3	40.65	39.39	39.46	41.34	47.27	49.99	38.75	36.74	45.31	37.59	36.26	36.62	3
4	40.64	38.13	39.44	40.65	48.51	49.75	38.18	36.64	46.30	37.33	36.14	36.70	4
5	40.77	37.70	39.42	40.74	48.90	48.81	37.75	36.37	46.32	37.13	36.11	36.75	5
6	40.81	37.72	39.41	40.69	48.19	48.89	37.75	36.78	44.25	36.99	36.28	36.85	6
7	40.61	37.78	39.37	39.77	47.51	47.59	37.71	36.71	42.89	36.90	36.37	36.67	7
8	40.62	37.61	39.35	38.37	46.98	46.81	37.45	38.56	41.24	36.61	36.40	36.46	8
9	40.59	37.44	39.39	40.21	46.51	46.68	37.25	39.20	40.96	36.55	36.28	36.49	9
10	40.40	37.36	39.17	40.61	46.14	46.08	37.33	39.26	44.56	36.49	36.27	36.64	10
11	40.31	37.32	38.79	40.59	45.99	45.63	37.39	39.56	47.40	36.41	35.98	36.72	11
12	40.45	37.56	39.26	40.60	45.85	45.53	37.48	39.62	44.20	36.34	36.00	36.84	12
13	40.45	37.60	39.38	40.58	45.83	44.86	37.40	39.94	41.24	36.54	36.07	36.81	13
14	40.39	37.58	39.37	40.72	45.62	44.44	37.48	39.70	39.63	36.39	36.01	36.93	14
15	40.35	37.58	39.36	43.62	44.56	44.35	37.49	39.51	39.27	36.48	35.92	36.88	15
16	39.89	37.56	39.38	45.09	44.42	44.28	37.55	41.22	38.61	36.48	36.19	36.96	16
17	39.66	37.54	39.30	49.47	44.40	44.25	37.46	44.38	38.49	36.42	36.30	38.98	17
18	39.50	37.49	39.38	56.51	44.47	44.40	37.24	45.03	38.39	36.50	36.34	36.93	18
19	39.33	37.47	39.41	55.70	45.04	44.33	37.10	45.08	37.81	36.36	36.15	36.67	19
20	39.21	37.43	39.49	54.92	45.53	44.33	37.14	45.12	37.56	36.23	35.96	37.02	20
21	39.20	37.39	39.47	54.53	45.59	44.27	37.07	44.38	37.38	36.27	36.19	37.10	21
22	39.16	37.82	39.63	56.64	45.58	44.12	37.02	42.11	38.12	36.17	36.34	37.29	22
23	39.16	39.11	39.57	57.91	45.59	43.73	36.94	38.95	39.31	36.17	36.62	37.06	23
24	39.16	39.36	39.45	56.07	45.58	42.47	37.06	40.22	39.69	36.29	36.59	36.98	24
25	39.19	39.43	40.69	55.46	45.56	41.09	37.14	43.50	38.81	36.14	36.42	36.78	25
26	39.29	39.47	43.27	55.42	45.19	40.03	37.17	43.45	38.62	36.14	36.27	37.01	26
27	39.25	39.54	43.57	55.40	44.75	39.40	36.92	42.47	38.50	36.18	36.52	37.39	27
28	39.30	39.55	43.61	55.15	44.68	39.24	36.83	42.23	38.17	36.08	36.56	37.14	28
29	39.40	39.54	43.68	54.37		39.41	36.93	42.85	42.42	36.17	36.40	37.15	29
30	39.45	39.51	43.72	53.22		39.26	36.91	43.94	40.97	36.04	36.60	36.63	30
31	39.55		43.74	51.51		39.23		43.24		36.13	36.71		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATE
NR — NO RECORD
NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-18-70	1230	57.41									
1-23-70	----	58.44									
3- 3-70	2300	50.25									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	14 SEC T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD FROM TO	ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT	DATE					
37 43 50	121 06 35	SE29 28 8E	62500	63.25	12-24-55	APR 40-DATE		1940	0.00	USGS

Station located 15 feet downstream from the Southern Pacific Railroad Bridge, 1.0 mile southeast of Ripon. Records furnished by U. S. Geological Survey. Flow records are published in U. S. Geological Survey report "Surface Water Records of California". Drainage area is 1,075 square miles.

TABLE B-11 (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

DAILY MEAN GAGE HEIGHT (IN FEET)													
WATER YEAR		STATION NO		STATION NAME									
1970		803115		STANISLAUS RIVER AT KOETITZ RANCH									
DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	32.65	30.90	30.91	34.62E	39.77	35.48	31.57	28.67	34.26	30.56	27.91	26.20	1
2	32.31	30.91	30.72	34.60E	38.72	36.91	32.37	28.66	35.40	29.97	27.97	26.23	2
3	32.17	30.83	30.84	32.82E	37.88	39.94	30.78	28.68	36.12	29.40	28.11	26.20	3
4	32.18	29.82	30.84	31.73E	38.73	40.17	29.88	28.62	37.16	29.05	27.74	26.34	4
5	32.30	29.24	30.83	31.98E	39.41	39.27	29.39	28.21	37.20	28.82	27.62	26.46	5
6	32.43	29.17	30.82	31.97E	38.80	39.35	29.31	28.42	35.77	28.67	27.94	26.60	6
7	32.25	29.18	30.79	31.43	38.14	38.44	29.35	28.45	34.37	28.61	28.02	26.31	7
8	32.23	29.07	30.76	29.87	37.60	37.56	29.14	29.71	33.00	28.37	28.10	27.88	8
9	32.26	28.90	30.78	31.18	37.17	37.41	28.90	30.67	32.48	28.37	28.21	27.77	9
10	32.12	28.78	30.69	31.81	36.82	37.24	28.96	30.91	35.02	28.27	28.00	27.97	10
11	32.07	28.75	30.24	31.86	36.64	36.44	29.06	31.15	36.05	28.20	27.66	26.16	11
12	32.03	28.90	30.58	31.85	36.49	36.34	29.22	31.15	35.93	28.09	27.62	26.33	12
13	32.07	29.00	30.78	31.86	36.40	35.87	29.21	31.46	33.07	28.22	27.58	26.38	13
14	31.92	28.99	30.78	32.00	36.40	35.37	29.24	31.27	31.69	28.04	27.75	26.48	14
15	32.04	28.98	30.78	34.02	35.30	35.26	29.16	31.09	31.17	28.07	27.69	26.48	15
16	31.73	28.97	30.78	35.87	35.11	35.19	29.22	32.26	30.48	28.08	27.93	26.63	16
17	31.16	28.95	30.73	38.70	35.09	35.15	29.17	35.24	30.28	28.06	28.11	26.61	17
18	30.99	28.92	30.77	44.79	35.17	35.27	29.04	36.05	30.08	28.22	28.07	26.72	18
19	30.72	28.88	30.82	45.73	35.60	35.28	28.92	36.14	29.70	28.16	27.94	26.42	19
20	30.58	28.63	30.87	45.02	36.17	35.35	29.05	36.14	29.40	28.00	27.77	26.62	20
21	30.55	28.81	30.89	44.73	36.24	35.36	28.85	35.67	29.40	27.90	27.90	26.69	21
22	30.52	29.00	30.97E	45.53	36.24	35.17	28.70	33.96	29.55	27.97	27.98	26.67	22
23	30.50	30.27	30.95E	47.22	36.25	34.77	28.71	31.16	30.82	27.87	28.33	26.52	23
24	30.49	30.66	30.88E	45.90	36.25	33.98	28.88	31.34	31.26	28.01	28.37	26.44	24
25	30.50	30.76	31.71E	45.28	36.24	32.54	28.82	34.43	30.62	27.89	28.16	26.28	25
26	30.62	30.81	34.70E	45.20	35.98	31.72	29.03	34.68	30.17	27.93	28.06	26.55	26
27	30.60	30.89	34.66E	45.18	35.51	31.02	28.74	33.84	30.24	27.96	28.18	26.88	27
28	30.62	30.90	34.65E	45.04	35.43	30.68	28.46	33.56	29.70	27.82	28.33	26.75	28
29	30.72	30.92	34.65E	44.53		31.00	28.71	34.00	33.15	27.90	28.15	26.69	29
30	30.77	30.89	34.64E	43.72		30.74	28.77	35.05	32.70	27.70	28.20	26.12	30
31	30.88		34.63E	42.47		30.67		34.66		27.83	28.43		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED

NR — NO RECORD

NF — NO FLOW

DATE	TIME	GAGE HT	DATE	TIME	GAGE HT	DATE	TIME	GAGE HT	DATE	TIME	GAGE HT
1-18-70	1700	46.87	6-11-70	0600	38.30						
1-23-70	0500	47.56									
3- 4-70	0430	40.37									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE		
LATITUDE	LONGITUDE	1 4 SEC T & R NO B & M	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF DATUM
			CFS	GAGE HT	DATE			FROM	TO	
37 41 57	121 10 08	SW 2 3S 7E		50.5	12-24-55	OCT 62-DATE	MAR 50-SEP 62	1950	1962	USC&GS
								1963		USC&GS

Station located on left bank 9.35 miles upstream from mouth, 0.6 mile northwest of Bacon and Gates road junction, 3.7 miles southwest of Ripon.

TABLE B-II (Cont.)

DAILY MEAN GAGE HEIGHT
(IN FEET)

WATER YEAR	STATION NO.	STATION NAME
1970	B07020	SAN JOAQUIN RIVER NEAR VERNALIS

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	16.41	16.32	15.54	15.99	22.45	17.85	13.47E	12.21	13.06	13.39	10.43	10.85	1
2	16.11	16.27	15.63	16.05	21.22	18.02	12.57E	12.06	13.36	12.48	10.54	10.64	2
3	16.02	16.25	15.87	15.77	20.45	19.26	12.77	12.08	13.72	12.19	10.67	10.60	3
4	16.11	16.07	15.77	15.11	19.96	19.79	12.66	12.08	14.56	11.91	10.56	10.64	4
5	16.21	16.00	15.59	14.91	20.08	20.04	12.50	11.85	14.69	11.67	10.40	10.84	5
6	16.25	16.16	15.37	14.92	20.06	20.77	12.41	11.91	14.46	11.47	10.53	11.01	6
7	16.20	16.38	15.22	15.23	19.83	21.08	12.45	12.17	13.61	11.40	10.50	11.12	7
8	16.07	16.38	15.15	14.97	19.61	21.09	12.45	12.09	12.98	11.12	10.45	10.85	8
9	15.62	16.29	15.14	15.01	19.48	21.22	12.31	12.34	12.62	10.86	10.55	10.61	9
10	15.18	16.18	15.14	15.09	19.48	21.17	12.24	12.74	12.95	10.83	10.60	10.53	10
11	14.98	16.15	15.04	15.02	19.60	20.75	12.16	13.07	14.23	10.82	10.42	10.61	11
12	14.79	16.17	15.01	14.83	19.59	20.21	12.23	13.17	14.55	10.86	10.33	10.91	12
13	14.68	16.12	15.04	14.83	19.47	19.31	12.45	13.26	13.80	11.04	10.35	11.05	13
14	14.58	16.17	14.85	15.07	19.47	18.66	12.58	13.29	14.17	10.96	10.40	11.12	14
15	15.08	16.42	14.69	15.68	19.13	18.17	12.47	13.24	14.31	10.66	10.36	11.10	15
16	15.69	16.36	14.62	17.62	18.91	17.75	12.44	13.30	13.20	10.61	10.46	10.91	16
17	15.83	16.08	14.61	18.87	18.75	17.35	12.40	14.05	12.50	10.57	10.62	10.92	17
18	15.72	15.57	14.58	21.70	18.69	16.58	12.35	14.55	12.07	10.59	10.59	10.99	18
19	15.88	15.46	14.57	24.99	18.82	16.32	12.31	14.62	11.67	10.61	10.42	11.18	19
20	15.89	15.44	14.58	25.41	19.08	16.09	12.28	14.66	11.40	10.63	10.43	11.33	20
21	15.86	15.41	14.46	25.51	19.16	16.11	12.06	14.49	11.42	10.45	10.41	11.46	21
22	16.09	15.36	14.38	25.68	19.13	15.90	11.93	13.92	11.87	10.25	10.50	11.33	22
23	16.22	15.38	14.20	27.89	18.92	15.98E	11.84	12.76	12.68	10.28	10.55	11.22	23
24	16.35	15.17	14.30	27.90	18.61	15.84E	11.91	12.25	13.52	10.33	10.84	11.17	24
25	16.53	14.87	14.51	26.82	18.37	15.62E	12.06	13.06	13.26	10.37	10.86	11.08	25
26	16.68	15.25	15.19	26.38	18.27	15.15E	12.22	13.38	13.37	10.55	10.72	11.16	26
27	16.77	15.60	15.66	26.19	18.22	14.71E	12.38	13.18	13.52	10.67	10.71	11.35	27
28	16.75	15.70	15.81	26.03	18.00	14.40E	12.27	13.00	13.00	10.63	10.70	11.40	28
29	16.72	15.62	15.84	25.77	14.19E	12.15	12.94	13.56	13.56	10.42	10.76	11.29	29
30	16.52	15.57	15.86	25.72	14.14E	12.16	13.24	13.74	13.74	10.32	10.72	11.18	30
31	16.38		15.92	24.22		13.94E		13.32		10.29	10.90		31

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

E — ESTIMATED
NR — NO RECORD
NF — NO FLOW

DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.	DATE	TIME	GAGE HT.
1-23-70	1930	28.52									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	14 SEC T & R M.D.B. & M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF DATUM
			CFS	GAGE HT	DATE			FROM	TO		
37 40 34	121 15 55		79000	27.75	12- 9-50	JUL 22-DEC 23		1931	1959	8.4	USED
				32.81a	12- 9-50	JAN 24-FEB 25					
			52600	34.55	1-27-69	JUN 25-OCT 28		1931	1959	5.06	USCGS
						MAY 29-DATE		1959		0.00	USCGS

Station located on left bank 20 feet downstream from the Durham Ferry Highway Bridge, 3 miles downstream from the Stanislaus River 3.4 miles northeast of Vernalis. Drainage area is approximately 13,540 square miles. Natural flow of stream affected by storage reservoirs, power developments, ground water withdrawals and diversions for irrigation. Low flows consist mainly of return flow from irrigation. This station is operated under the Federal-State Cooperative Program. Equipped with DWR radio telemeter. The records are furnished by the U. S. Geological Survey.

a Reflects present datum. The gage height of 32.81 feet does not represent the maximum discharge of 79,000 cfs. as water was bypassing the station through levee breaks upstream from station.

TABLE B-12

CORRECTIONS AND REVISIONS
TO
PREVIOUSLY PUBLISHED REPORTS

This table shows corrections and revisions to surface water measurement data of the Bulletin No. 130 series and Bulletin No. 23 series not previously published in Bulletin No. 130-66, Volume IV.

For other corrections and revisions to previously published reports dating back to 1924, refer to page 160, Table B-11, Bulletin No. 130-66, Volume IV.

TABLE B-12

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

LOCATION OF ERROR				ITEM	CHANGE	
PAGE	MILE & BANK	NAME			FROM	TO
132		Bulletin No. 23-58 Surface Water Flow for 1958				
		Table 149	San Joaquin River at Whitehouse	July acre-feet Water Year Total	247300 1292000	24730 1069000
B-19		Bulletin No. 130-63 Hydrologic Data 1963 Volume IV, San Joaquin Valley				
		Table B-9	Miami Creek near Oakhurst	Maximum Discharge 1963 Water Year	1140E	804
				Maximum Discharge of record	1140E	804
B-29		Table B-19	Bear Creek near Cathay	Maximum Discharge flow 1963 Water gage ht. Year	3850E 9.98	4170E 10.07
				Maximum Discharge flow of record gage ht.	3850E 9.98	4170E 10.07
B-98	8 (12.00-13.75)	Table B-87	Tranquillity Irrigation District	Diversions	204	204
				Oct. Nov. Dec. Jan. Feb. March April May June July Aug. Sept. Total	 1777 4066 557 6306 1414 14324	 52 2005 4112 383 2291 7200 7454 6659 1414 31774
		Bulletin No. 130-64 Hydrologic Data 1964 Volume IV, San Joaquin Valley				
68		Table B-4	Miami Creek near Oakhurst	Maximum Discharge of record	1140E	804
78		Table B-4	Bear Creek near Catheys Valley	Maximum Discharge flow of record gage ht.	3850E 9.98	4170E 10.07
		Bulletin No. 130-65 Hydrologic Data 1965 Volume IV, San Joaquin Valley				
61		Table B-5	Miami Creek near Oakhurst	Maximum Discharge of record	1140E	804
72		Table B-5	Bear Creek near Catheys Valley	Maximum Discharge flow of record gage ht. date	4166E 9.97 1-7-65	4170E 10.07 2-1-63
82		Table B-5	Orestimba Creek near Crows Landing	Daily Mean Discharge		
			Jan. 8		0.0	B NR
			9		0.0	A NR
			10		0.0	C NR
			11		0.0	K NR
			12		0.0	W NR
			13		0.0	A NR
			14		0.0	T NR
			15		0.0	E NR
			16		0.0	R NR
			17		0.0	NR
115	112.55R	Table B-7	Divisions - San Joaquin River	L. A. Thompson	Delete Entire Line	
117	233.63L	Table B-7	United Packing Company	Divisions Total	omitted in 1965	700
		Bulletin No. 130-66 Hydrologic Data 1966 Volume IV, San Joaquin Valley				
76		Table B-4	Bear Creek near Catheys Valley	Maximum Discharge flow of record gage ht. date	4166E 9.97 1-7-65	4170E 10.07 2-1-63
78		Table B-4	Burns Creek at Hornitos	Maximum Discharge 1966 Water Year	1330E	2020E

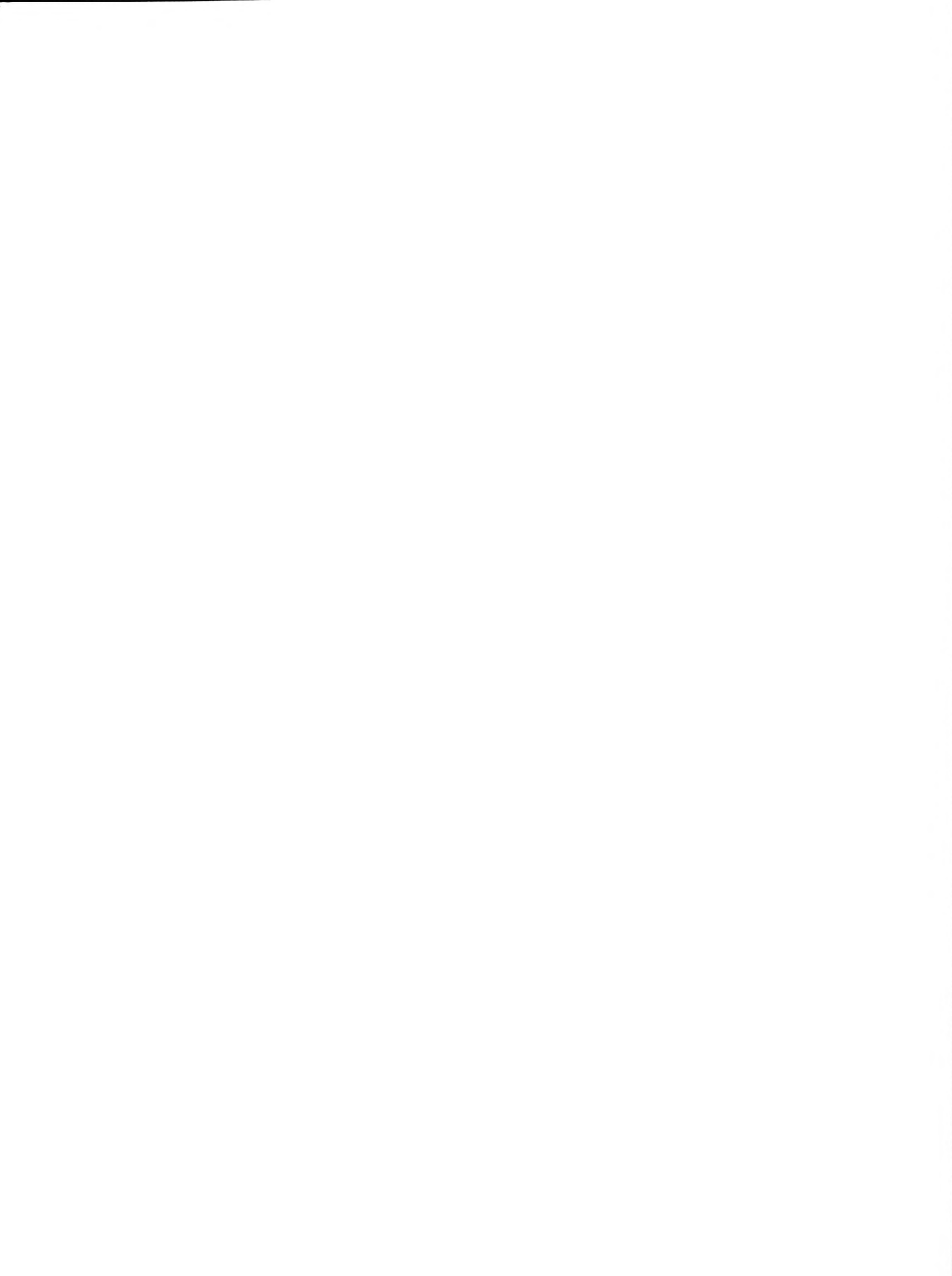
TABLE B-12 (Cont.)

CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS

LOCATION OF ERROR				ITEM	CHANGE	
PAGE	MILE & BANK	NAME	FROM		TO	
86		Table B-4 Merced River at Cressey	Minimum discharge month 1966 Water Year	7	8	
130		Table B-7 Turlock Irrigation District	Total acre-feet diverted - January Average cubic feet per second Monthly use in percent of seasonal Total Diversion Average cubic feet per second	18033 293 3.5 516577 714	1833 29.8 0.4 500377 691	
133		Table B-9 Exports from Tuolumne River	Total acre-feet Oct. Nov. Dec. Jan. Feb. March April May June July Aug. Sept. Total	15655 12685 14987 7812 11913 15566 11060 15208 18388 21398 21312 19498 185482	15696 12721 15023 7851 11946 12607 11106 15260 18438 21462 21379 19552 183041	
		Bulletin No. 130-67 Hydrologic Data <u>1967</u> Volume IV, San Joaquin Valley				
122	255.34R	Table B-6 Sycamore Island Stock Ranch 5	Diversions Sept. Total	40 278	17 255	
		Bulletin No. 130-68 Hydrologic Data <u>1968</u> Volume IV, San Joaquin Valley				
104		Table B-5 Laguna Water District	Diversions May June July Aug. Total		90 110 110 90 400	
107	1.9 L 2.9 L	Table B-5 J. V. Steenstrup Estate	Name	J. V. Steen- strup Estate	John & Robert Bogetti	
		Bulletin No. 130-69 Hydrologic Data <u>1969</u> Volume IV, San Joaquin Valley				
78		Table B-4 Merced River below Snelling	Daily Mean Discharge Jan. 21 Monthly Mean Monthly acre-feet	946 189 11620	980 190 11680	
87		Table B-4 San Joaquin River at Maze Road Bridge	Maximum Discharge 1969 Water Year Gage ht. Time Maximum discharge of record Gage ht. Last line Feet hours Date	42800 36.46 0400 42800 36.46 37.00 2400 2-28-69	45550 36.87 0300 45550 36.87 38.31 2000 1-27-69	
95		Table B-4 Tule River below Porterville	Maximum discharge 1969 Water Year Discharge gage ht. Month Day Time		3066 5.35 2 26 1200	
140		Table B-12 San Joaquin River at Maze Road Bridge	Maximum discharge of record gage ht. Date	37.00a 2-28-69	38.31a 1-27-69	



APPENDIX C
GROUND WATER MEASUREMENT



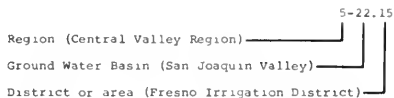
INTRODUCTION

The Department of Water Resources cooperates with the U. S. Geological Survey, U. S. Bureau of Reclamation, irrigation and water storage districts, and other local agencies for the systematic observation of ground water levels. The Department obtains approximately 13,000 water level measurements annually on some 7,500 wells in the San Joaquin Valley. The period of record for these wells varies from one to over 40 years. In preparation of the ground water maps most of the spring well measurements were used. However, because significant trends in water level fluctuations can be indicated by a representative sample, a selection was made of approximately 500 wells for reporting of actual measurements.

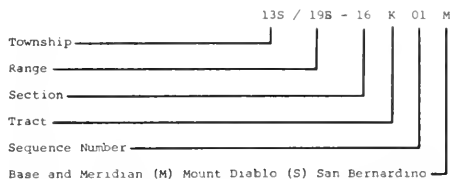
This appendix presents ground water measurement data on these wells for the period October 1, 1969, through September 30, 1970. These wells were selected as being representative of all the wells measured in the area and are designated as selected wells. Their selection is based on a number of factors, including areal distribution, length of water level record, frequency of measurements, conformity with respect to water level fluctuation in the ground water basin or area in a confined aquifer, or in a zone of shallow depth, and availability of a log, mineral analyses, and production record.

Two numbering systems are used by the Department to facilitate processing of water level measurement data. The two systems are the Region and Basin Designation and the State Well Numbering System as described below.

The regions used in this report are geographic areas defined in Section 13040 of the Water Code. That portion of California covered by this volume comprises the southern portion of Central Valley Region No. 5. A decimal system of the form 0-00.00 has been selected according to geographic regions, ground water basins, and district or area as follows:



The State Well Numbering System is based on township, range, and section subdivisions of the Public Land Survey. The number of a well, assigned in accordance with this system, is referred to as the State Well Number, as illustrated below:



This number identifies and locates the well. In the example, the well is in Township 13 South, Range 19 East, Tract K of Section 16, located in the Mount Diablo Base and Meridian. A section is divided into 40-acre tracts as follows:

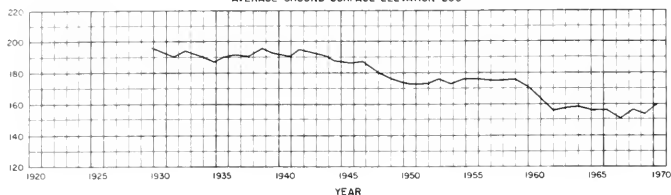
D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Sequence numbers in a tract are generally assigned in chronological order. The example designates the first well to be assigned a number in Tract K.

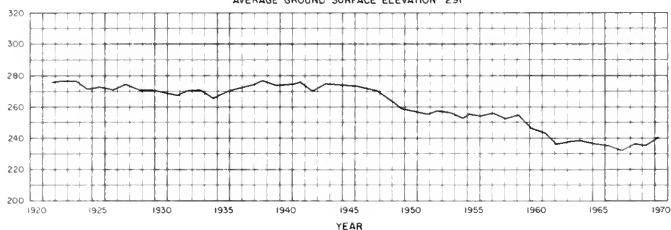
Figure C-1. FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION IN FEET U.S.C.B.G.S. DATUM

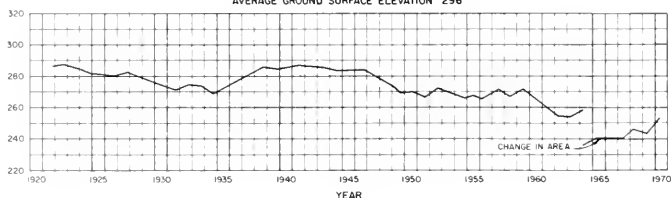
MADERA GROUND WATER AREA
AREA 342.6 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 230'



FRESNO GROUND WATER AREA
AREA 404.0 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 291'



CONSOLIDATED GROUND WATER AREA
AREA 243.0 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 296'



CENTERVILLE BOTTOMS GROUND WATER AREA
AREA 18.15 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 363'

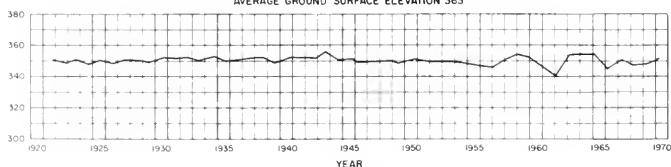


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION IN FEET - U.S.C. & G.S. DATUM

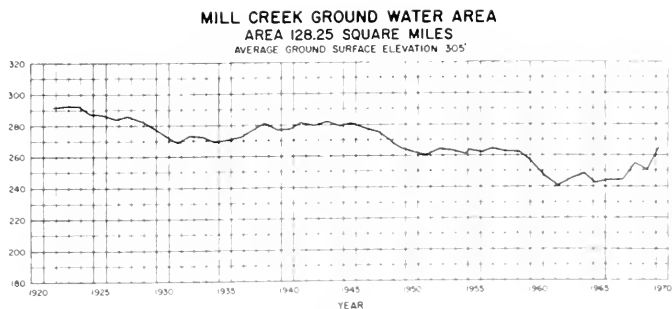
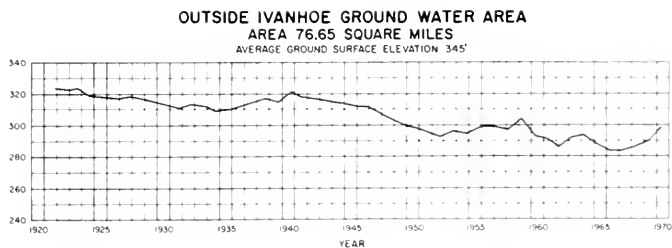
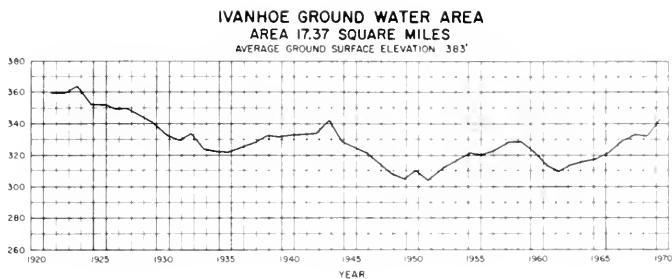
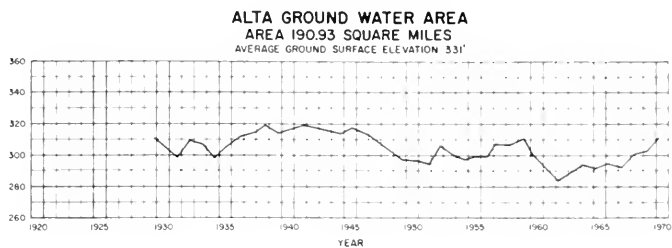


Figure C-I (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

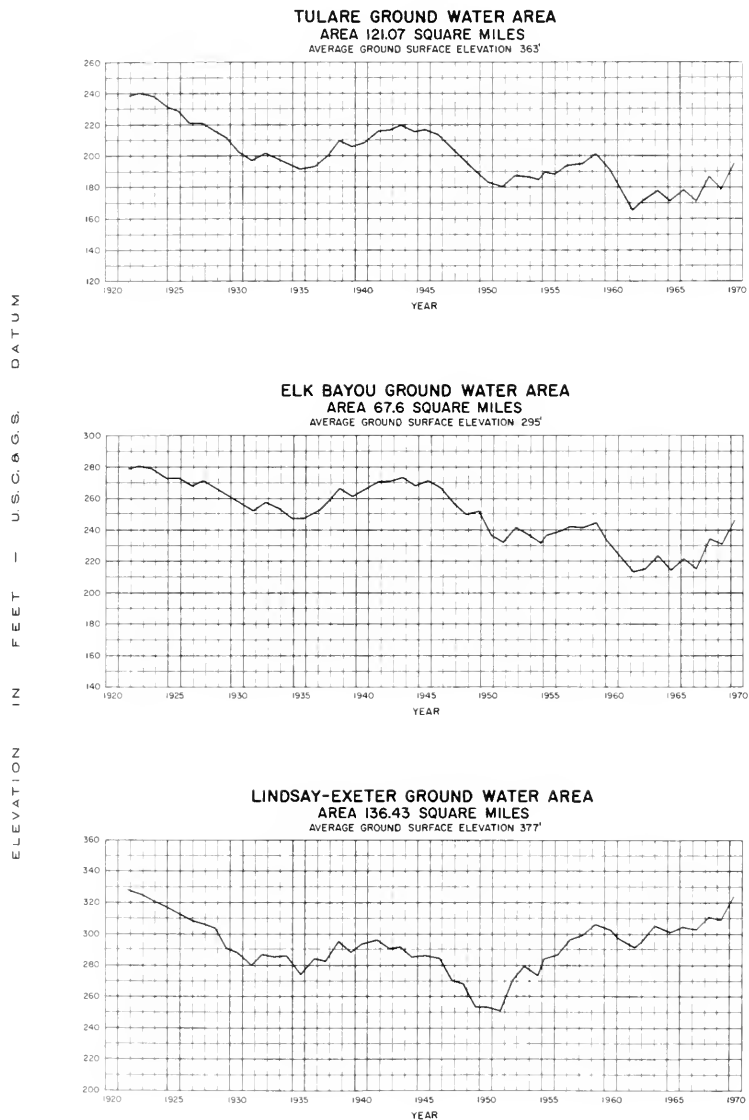


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

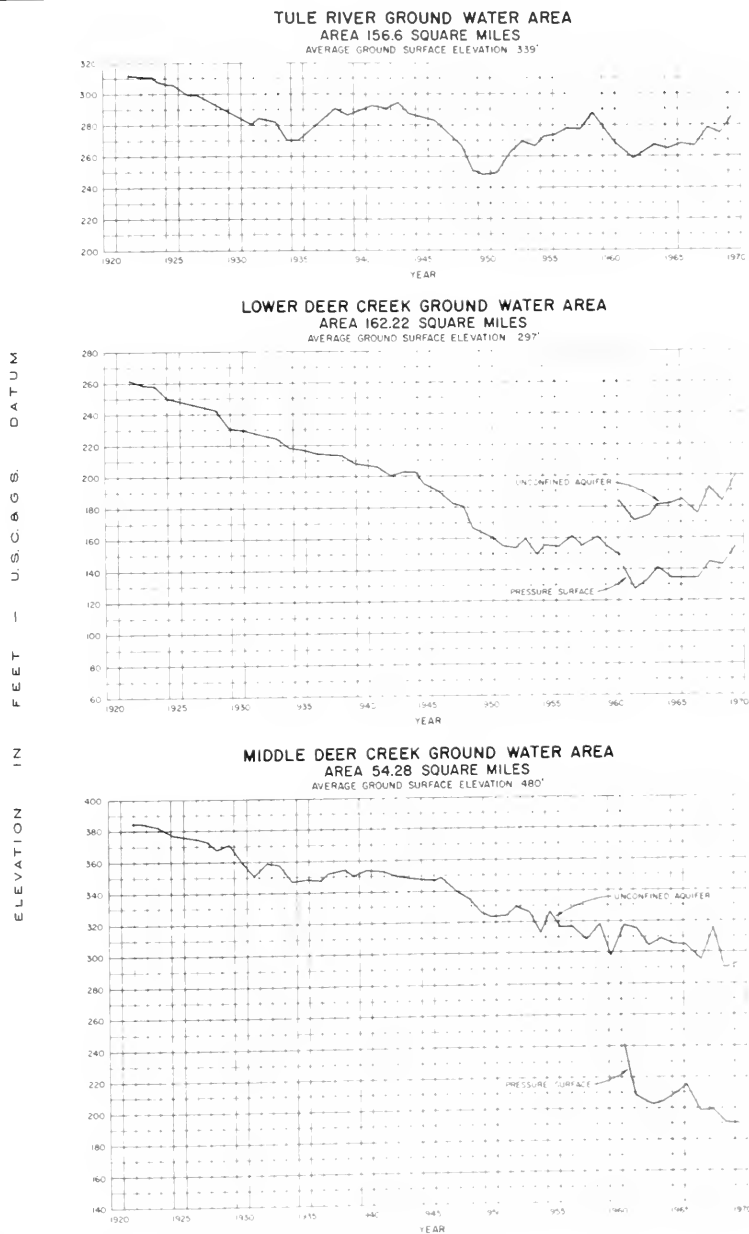
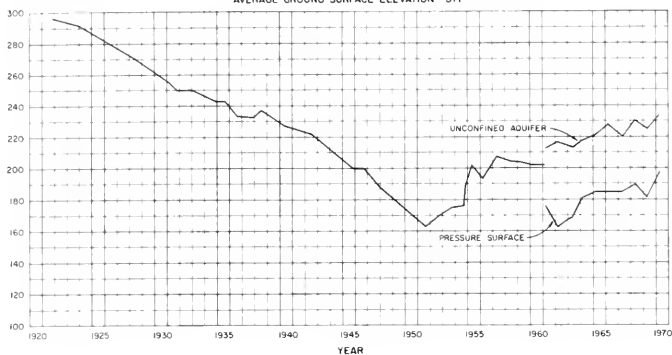


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION IN FEET
USCGS DATUM

DELANO-EARLIMART GROUND WATER AREA
AREA 140.0 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 371'



Mc FARLAND-SHAFTER GROUND WATER AREA
AREA 306.0 SQUARE MILES
AVERAGE GROUND SURFACE ELEVATION 340'

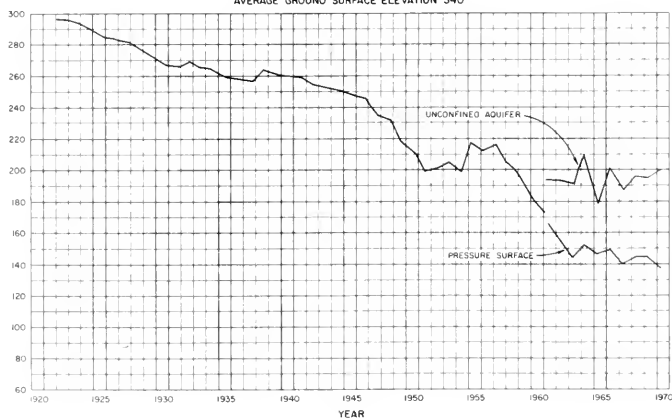
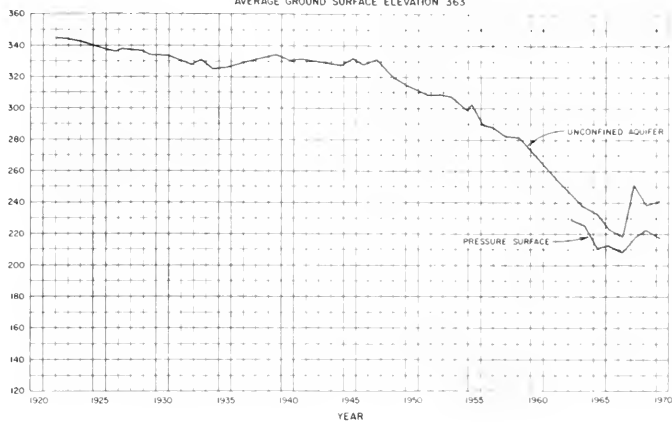


Figure C-1 (Continued). FLUCTUATION OF AVERAGE WATER LEVEL IN SELECTED AREAS

ELEVATION IN FEET U.S.C.O.S. DATUM

ROSEDALE GROUND WATER AREA
 AREA 78.88 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 365'



ARVIN-EDISON GROUND WATER AREA
 AREA 205.18 SQUARE MILES
 AVERAGE GROUND SURFACE ELEVATION 543'

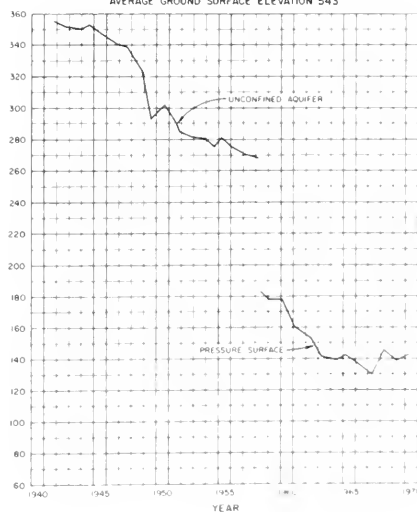


Figure C-2. FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

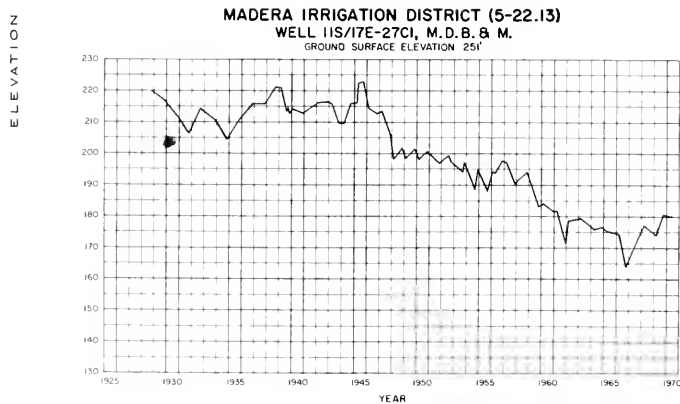
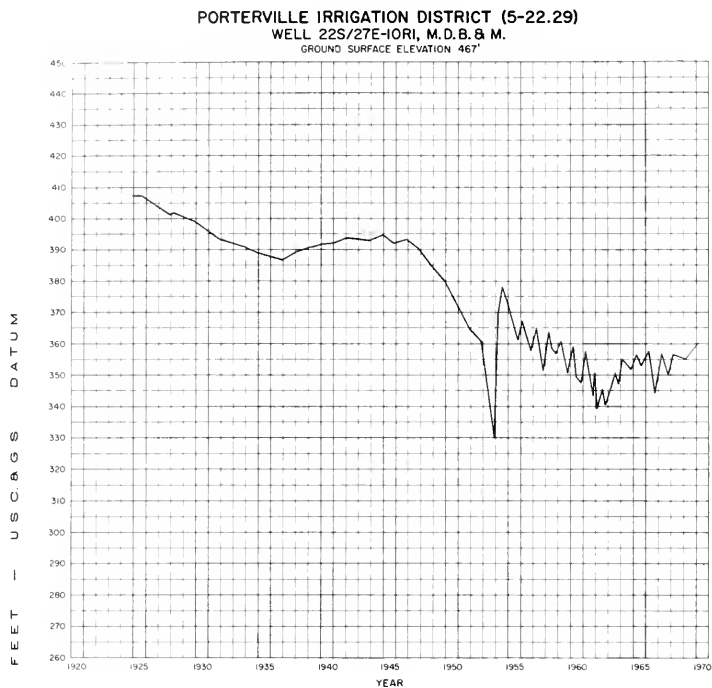
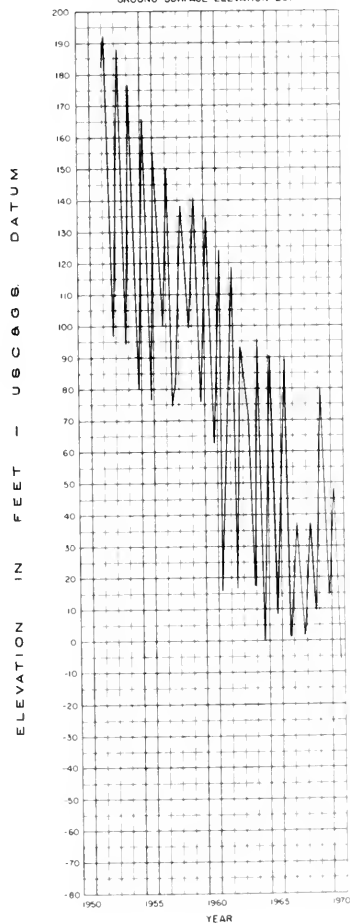
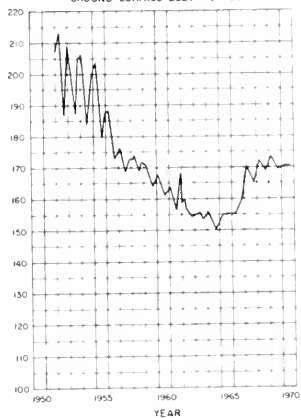


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

**SEMITROPIC WATER STORAGE DISTRICT-
DEEP ZONE (5-22.43)
WELL 27S/23E-1R4, M.D.B. & M.
GROUND SURFACE ELEVATION 267'**



**SEMITROPIC WATER STORAGE DISTRICT-
SHALLOW ZONE (5-22.43)
WELL 27S/23E-1R1, M.D.B. & M.
GROUND SURFACE ELEVATION 267'**



**MERCED IRRIGATION DISTRICT
(5-22.09)
WELL 7S/11E-1H1, M.D.B. & M.
GROUND SURFACE ELEVATION 118'**

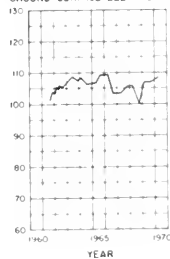
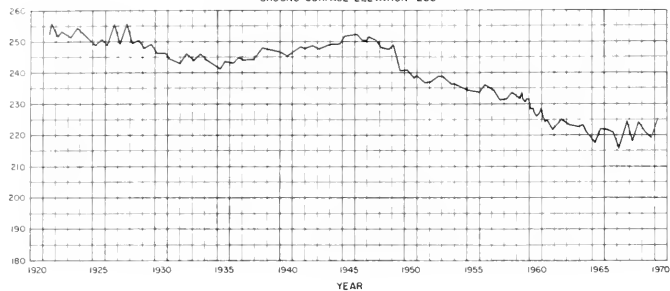


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET - DATUM

FRESNO IRRIGATION DISTRICT (5-22.15)
WELL 13S/19E-901, M.D.B. & M.
 GROUND SURFACE ELEVATION 288'



NORTH KERN WATER STORAGE DISTRICT (5-22.37)
WELL 27S/25E-22A1, M.D.B. & M.
 GROUND SURFACE ELEVATION 392'

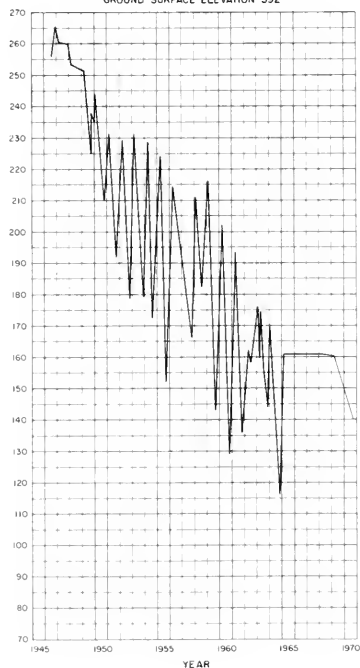
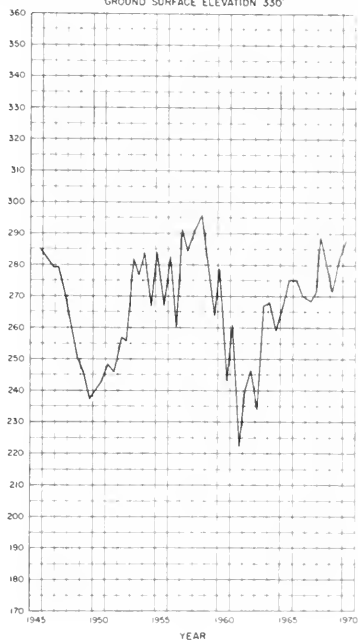


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET ABOVE DATUM

LOWER TULE RIVER IRRIGATION DISTRICT (5-22.30)
WELL 21S/26E-7A1, M.D.B. & M.
 GROUND SURFACE ELEVATION 330'



OAKDALE IRRIGATION DISTRICT (5-22.06)
WELL 2S/10E-33J1, M.D.B. & M.
 GROUND SURFACE ELEVATION 167'

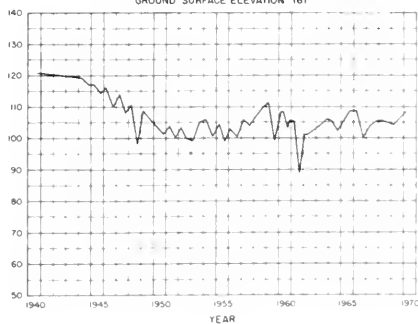
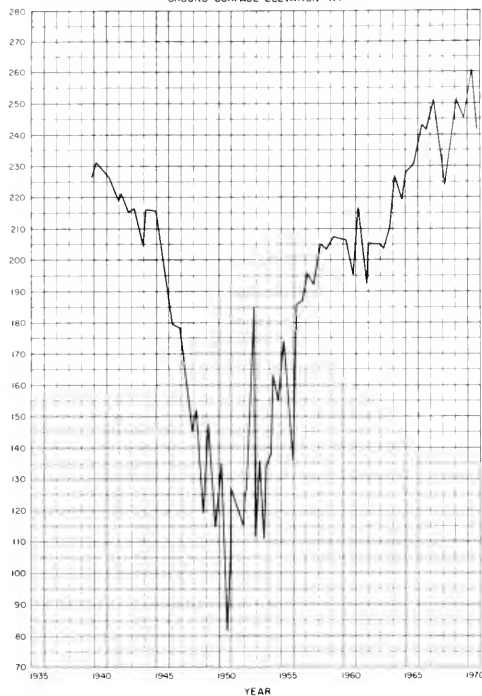


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET - U.S.C.G.S. DATUM

SOUTHERN SAN JOAQUIN MUNICIPAL UTILITY DISTRICT (5-22.36)
WELL 25S/26E-28H2, M.D.B. & M.
 GROUND SURFACE ELEVATION 414'



AVENAL-Mc KITTRICK AREA (5-22.44)
WELL 25S/19E-20Q2 M.D.B. & M.
 GROUND SURFACE ELEVATION 480'

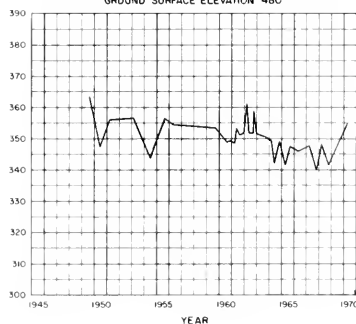
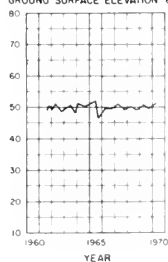


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS



MODESTO IRRIGATION DISTRICT
(5-22.07)

WELL 3S/8E-22C2, M.D.B. & M.
 GROUND SURFACE ELEVATION 64'



TURLOCK IRRIGATION DISTRICT
(5-22.08)

WELL 5S/9E-4A1, M.D.B. & M.
 GROUND SURFACE ELEVATION 70'

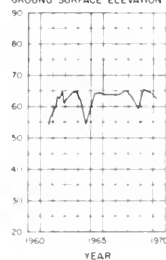
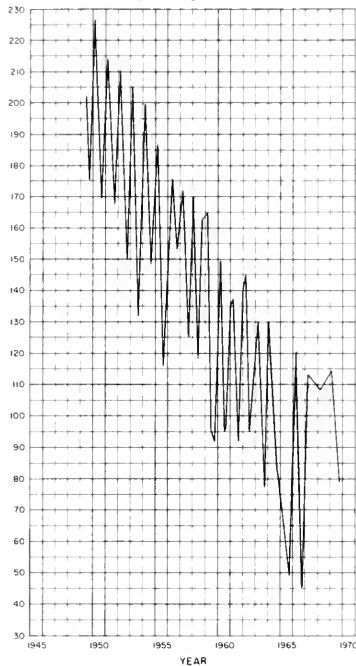


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION
IN
FEET
J
U
S
C
S
D
A
T
U
M

SHAFTER-WASCO IRRIGATION DISTRICT (5-22.38)
WELL 27S/24E-35C1, M.D.B. & M.
 GROUND SURFACE ELEVATION 316'



DELTA-MENDOTA AREA-SHALLOW ZONE (5-22.11)
WELL 3S/6E-18N1, M.D.B. & M.
 GROUND SURFACE ELEVATION 99'

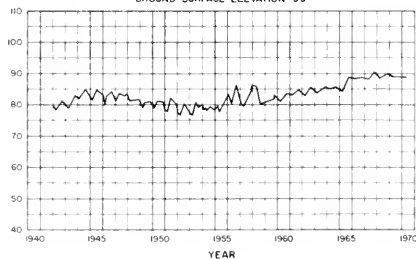
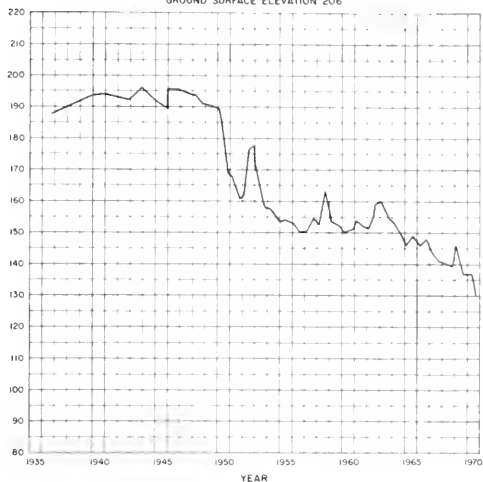


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET SUBSIDIARY DATUM

ALPAUGH-AlLENSWORTH AREA (5-22.34)
WELL 24S/23E-21B2, M.D.B. & M.
GROUND SURFACE ELEVATION 206'



MENDOTA-HURON AREA (5-22.47)
WELL 17S/16E-24R1, M.D.B. & M.

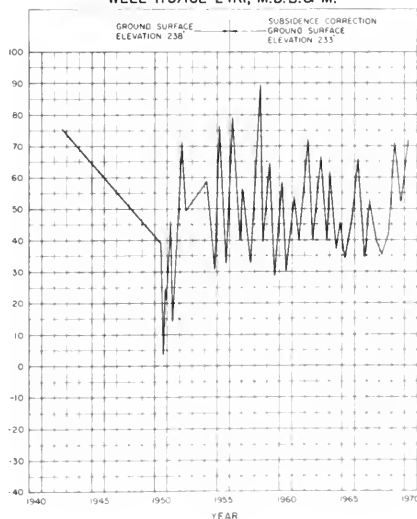


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

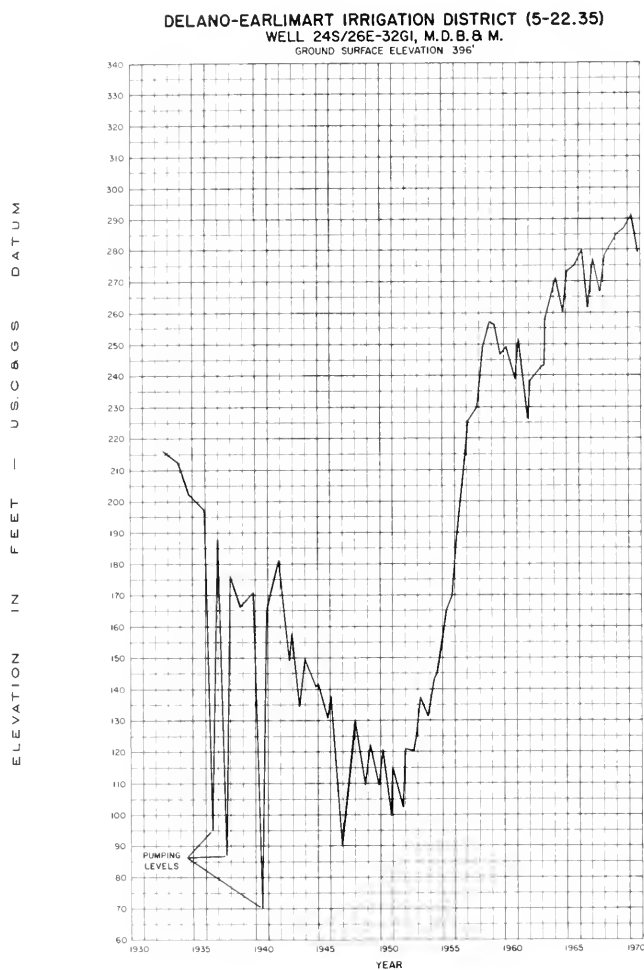
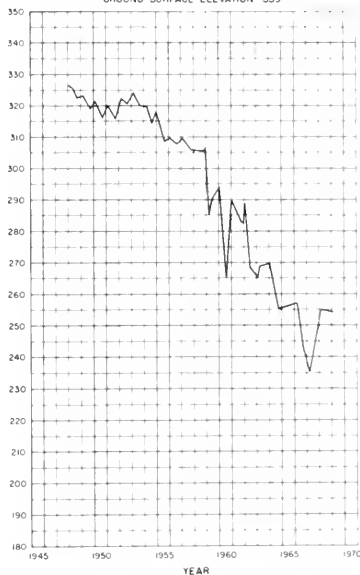


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION
IN
FEET
—
USCGS
DATUM

KERN RIVER DELTA AREA (5-22.40)
WELL 30S/26E-27A1, M.D.B. & M.
GROUND SURFACE ELEVATION 339'



STONE CORRAL[#]
IRRIGATION DISTRICT (5-22.22)
WELL 17S/26E-7R1, M.D.B. & M.
GROUND SURFACE ELEVATION 364'

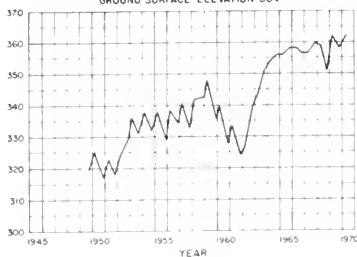


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION
IN
FEET
D
A
T
U
M

CONSOLIDATED IRRIGATION DISTRICT (5-22.18)
WELL 16S/20E-22N1, M.D.B. & M.
 GROUND SURFACE ELEVATION 247'



SAUCELITO IRRIGATION DISTRICT (5-22.32)
WELL 22S/26E-15J1, M.D.B. & M.
 GROUND SURFACE ELEVATION 371'

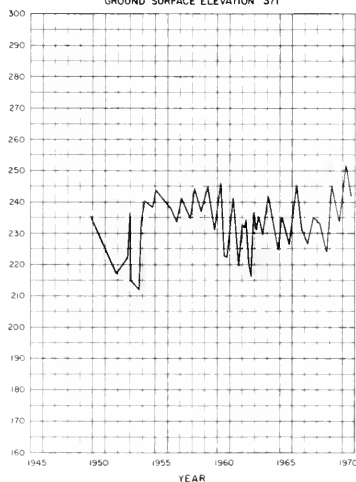


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

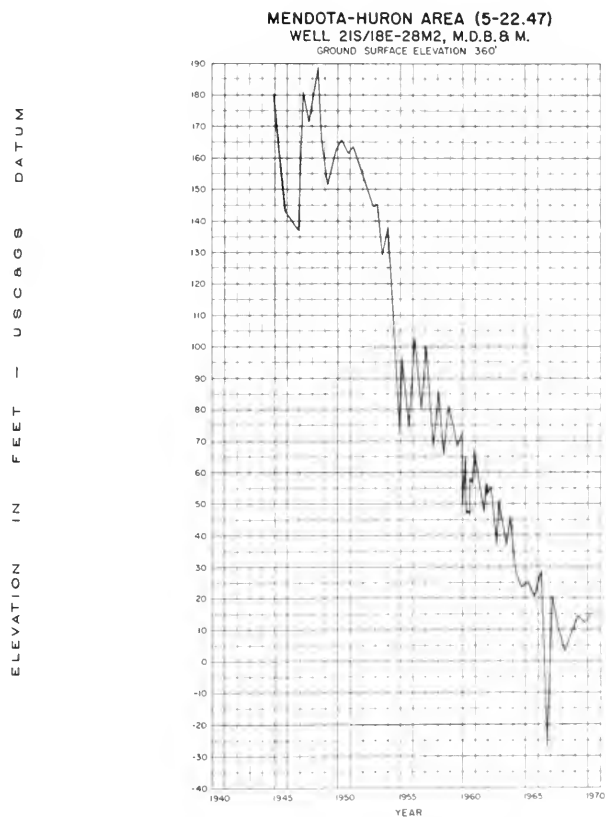
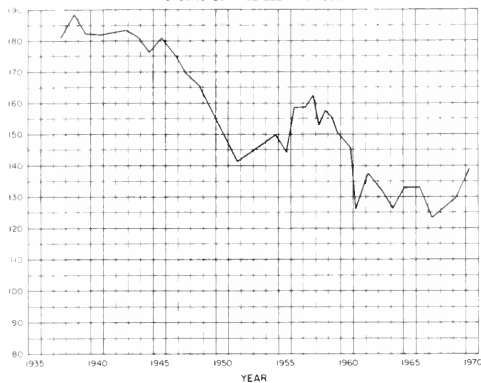


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

ELEVATION IN FEET - U.S. & G.S. DATUM

FRESNO SLOUGH AREA (5-22.17)
WELL 17S/18E-23A2, M.D.B. & M.
 GROUND SURFACE ELEVATION 200'



EXETER IRRIGATION DISTRICT (5-22.26)
WELL 18S/27E-29D1, M.D.B. & M.
 GROUND SURFACE ELEVATION 446'

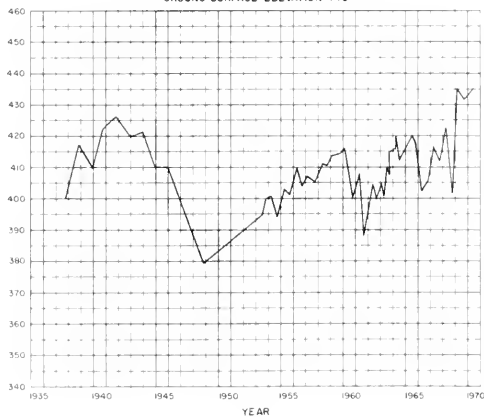


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

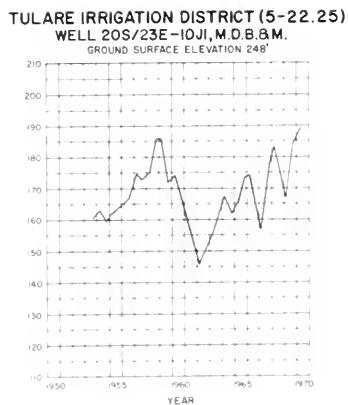
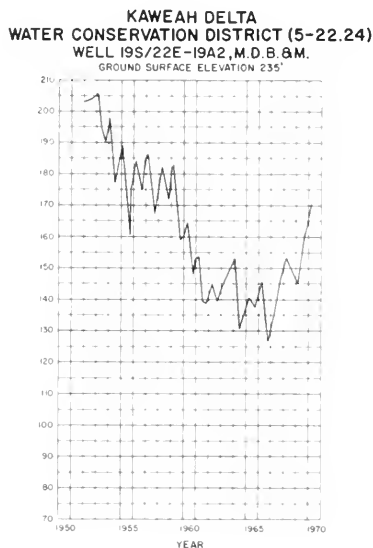
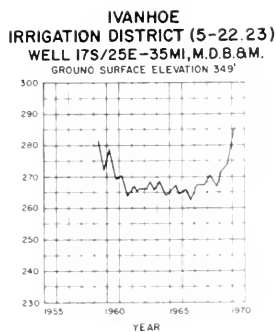
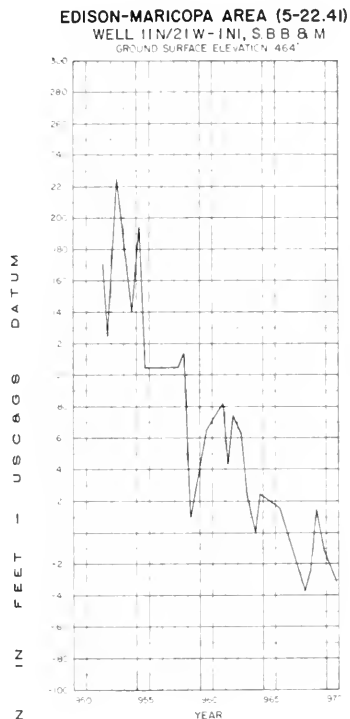


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

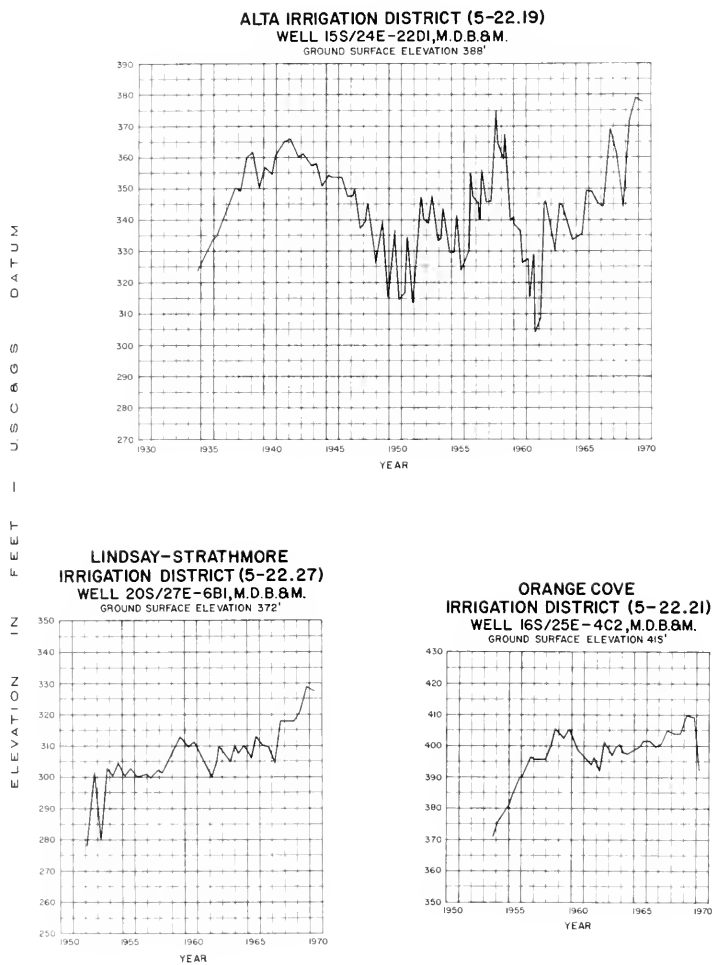


Figure C-2 (Continued). FLUCTUATION OF WATER LEVELS IN SELECTED WELLS

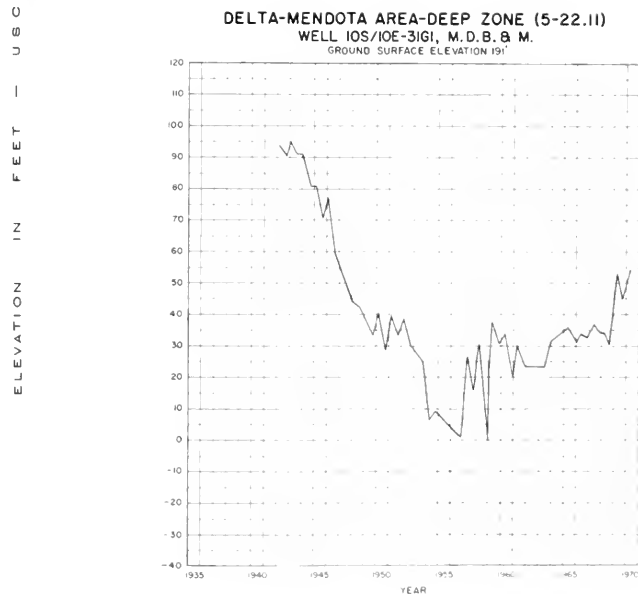
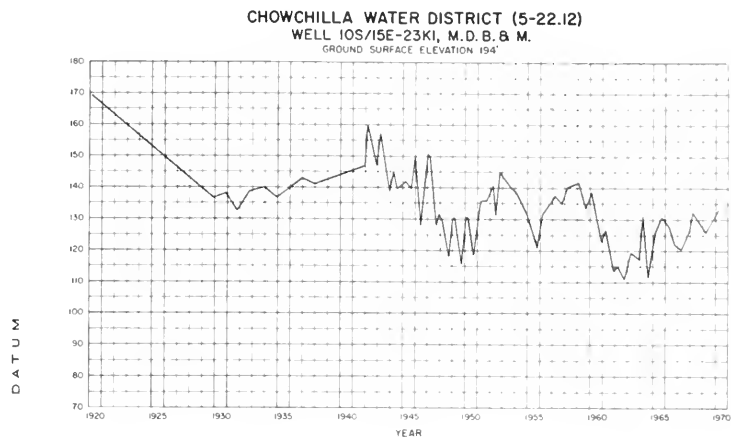


TABLE C-1
CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1969 - Spring 1970

Ground Water Districts or Areas		Number of Wells Considered in Analysis ^{a/}	Change in Feet
Name	Number		
San Joaquin Valley	5-22.00		
Oakdale Irrigation District	5-22.06		- 0.2
Modesto Irrigation District	5-22.07		+ 0.9
Turlock Irrigation District	5-22.08		- 2.3
Merced Irrigation District	5-22.09		- 0.2
El Nido Irrigation District	5-22.10		+ 9.4
Delta-Mendota Area	5-22.11	320	+ 0.1
Chowchilla Water District	5-22.12		+ 6.7
Madera Irrigation District	5-22.13		+ 6.3
West Chowchilla-Madera Area	5-22.14		+ 4.6
Fresno Irrigation District	5-22.15		+ 4.3
City of Fresno	5-22.16	59	+ 3.2
Fresno Slough Area	5-22.17		+ 1.5
Consolidated Irrigation District	5-22.18		+ 6.9
Alta Irrigation District	5-22.19		+ 7.8
Lower Kings River Area	5-22.20		
Shallow Zone			+ 3.7
Deep Zone			+18.2
Orange Cove Irrigation District	5-22.21	92	+ 3.0
Stone Corral Irrigation District	5-22.22	10	+ 1.6
Ivanhoe Irrigation District	5-22.23		+12.9
Kaweah-Delta Water Conservation District	5-22.24		+14.3
Tulare Irrigation District	5-22.25		+16.2
Exeter Irrigation District	5-22.26		+10.4
Lindsay-Strathmore Irrigation District	5-22.27		+10.0
Lindmore Irrigation District	5-22.28		+12.5
Porterville Irrigation District	5-22.29		+ 7.6
Lower Tule River Irrigation District	5-22.30		
Shallow Zone			+10.3
Deep Zone			+11.8
Vandalia Irrigation District	5-22.31	6	+ 2.4
Saucelito Irrigation District	5-22.32		
Shallow Zone			+17.0
Deep Zone			+14.6
Pixley Irrigation District	5-22.33		
Shallow Zone			+12.2
Deep Zone			+ 7.3

TABLE C-1 (Cont.)
 CHANGE IN AVERAGE GROUND WATER LEVEL
 IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
 Spring 1969 - Spring 1970

Ground Water Districts or Areas		Number of Wells Considered in Analysis ^{a/}	Change in Feet
Name	Number		
San Joaquin Valley (Continued)			
Alpaugh-Allensworth Area	5-22.34		
Shallow Zone			+ 8.6
Deep Zone			+ 4.0
Delano-Earlimart Irrigation District	5-22.35		
Shallow Zone			+ 9.4
Deep Zone			+16.4
Southern San Joaquin Municipal Utility District	5-22.36		
Shallow Zone			+ 8.6
Deep Zone			+13.9
North Kern Water Storage District	5-22.37		
Shallow Zone			+21.8
Deep Zone			- 7.8
Shafter-Wasco Irrigation District	5-22.38		
Shallow Zone			- 8.0
Deep Zone			-11.0
City of Bakersfield	5-22.39	21	- 1.2
Kern River Delta Area	5-22.40		
Shallow Zone			+ 4.4
Deep Zone			+ 1.2
Edison-Maricopa Area	5-22.41		
Deep Zone			+ 6.0
Buena Vista Water Storage District	5-22.42		+ 1.3
Semitropic Water Storage District	5-22.43		
Shallow Zone			+ 3.2
Deep Zone			-13.0
Avenal-McKittrick Area	5-22.44	No measurements made spring 1969	
Tulare Lake-Lost Hills Area	5-22.45	Insufficient data to compute change	
Corcoran Irrigation District	5-22.46		
Shallow Zone			+ 1.2
Deep Zone			+31.1
Mendota-Huron Area	5-22.47		
Deep Zone			+43.3 ^{b/}
Poso Soil Conservation District	5-22.48		+ 1.0
San Luis Canal Company	5-22.49		- 2.9
Terra Bella Irrigation District	5-22.50	3	+ 1.9
Merced Bottoms	5-22.54		- 0.5
Centerville Bottoms Area	5-22.64		- 2.1
Garfield Water District	5-22.65	19	+ 5.9

TABLE C-1 (Cont.)

CHANGE IN AVERAGE GROUND WATER LEVEL
IN DISTRICTS OR AREAS IN THE SAN JOAQUIN VALLEY
Spring 1969 - Spring 1970

Ground Water Districts or Areas		Number of Wells Considered in Analysis ^{a/}	Change in Feet
Name	Number		

San Joaquin Valley (Continued)

Kings County Water District	5-22.66		
Shallow Zone			+ 9.2
Deep Zone			+17.9
Pleasant Valley Area	5-22.69	11	+ 0.2

^{a/} Average changes were determined by planimetering ground water contour maps. Where numbers appear changes were computed by numerical averages.

^{b/} Average change determined from water level measurements made during December 1968 and December 1969.

TABLE C-2

CHANGE IN AVERAGE GROUND WATER LEVEL FROM
1921 TO 1951 AND 1951 TO 1970^a
IN 18 GROUND WATER AREAS IN THE SAN JOAQUIN VALLEY

Name of Ground Water Area ^a	Area in square miles	Irrigation and Other Water Districts Included in the Ground Water Area	Net change in water level ^b / 1921-51 ^c / in feet	Net change in water level ^b / 1951-70 ^d / in feet
Madera	342.6	Madera Irrigation District and Chowchilla Water District	- 24.1 ^e / _f	- 12.6
Fresno	404.0	Fresno Irrigation District and City of Fresno	- 22.4	- 13.4
Consolidated	243.0	Consolidated Irrigation District	- 19.0	+ 11.1
Centerville Bottoms	18.1	-----	+ 1.0	+ 1.4
Alta	190.9	Alta Irrigation District	- 17.2 ^e / _f	+ 14.2
Ivanhoe	17.4	Ivanhoe Irrigation District	- 55.9	+ 39.3
Outside Ivanhoe	76.6	Stone Corral Irrigation District and a portion of Alta Irrigation District	- 28.5	+ 3.6
Mill Creek	128.2	Portions of Kings County Water District and Kaweah Delta Water Conservation District	- 31.1	+ 3.7
Tulare	121.1	Tulare Irrigation District	- 59.1	+ 15.1
Elk Bayou	67.6	Portion of Kaweah Delta Water Conservation District	- 47.8	+ 14.3
Lindsay-Exeter	136.4	Exeter Irrigation District, Lindsay- Strathmore Irrigation District, and Lindmore Irrigation District	- 77.7	+ 76.5
Tule River	156.6	Porterville Irrigation District, portions of Lower Tule River Irrigation District, and Saucelito Irrigation District	- 62.5	+ 41.1
Lower Deer Creek	162.2	Portions of Lower Tule River Irrigation District, Saucelito Irrigation District, and Delano-Earlimart Irrigation District	-106.7	+ 15.6 ^e / + 11.1 ^f
Middle Deer Creek	54.6	Terra Bella Irrigation District	- 61.8	- 13.3 ^e / - 50.5 ^f
Delano-Earlimart	140.0	Portions of Delano-Earlimart Irrigation District and Southern San Joaquin Municipal Utility District	-133.8	+ 22.3 ^e / + 20.1 ^f
McFarland-Shafter	306.0	North Kern Water Storage District, Shafter- Wasco Irrigation District, and a portion of Southern San Joaquin Municipal Utility District	- 99.0	+ 7.3 ^e / - 28.5 ^f
Rosedale	78.9	-----	- 36.3	- 34.6 - 11.2 ^e / _f
Arvin-Edison	205.2	Arvin-Edison Water Storage District	- 69.9 ^d / _f	- 17.3 ^f / _f

a/ 1951 was the first year of substantial deliveries from the Friant-Kern Canal.

b/ Fall 1951 to spring 1970.

c/ Fall 1929 to fall 1951.

d/ Fall 1941 to fall 1951.

e/ Unconfined aquifer, spring 1961 to spring 1970, only one aquifer reported prior to 1961.

f/ Pressure surface, spring 1961 to spring 1970, only one aquifer reported prior to 1961.

g/ Pressure surface, spring 1963 to spring 1970, only one aquifer reported prior to 1963.

* These areas are shown on Plate 3.

TABLE C-3

GROUND WATER LEVELS AT WELLS

An explanation of the column headings and the code symbols follows:

State Well Number--refer to the explanation under Introduction, page 139.

Ground surface elevation represents the elevation in feet above mean sea level (U.S.G.S. and U.S.C. & G.S. datum) of the ground surface at the well. Elevations are usually taken from topographic maps and the accuracy is controlled by topographic standards.

Date is the date the depth measurement was made. Where 00 appears in the date, day of measurement is unknown.

Ground surface to water surface in feet is the measured depth in feet from the ground surface to the water surface in the well.

Other code symbols used in this column are as follows:

NO MEASUREMENT

- | | |
|-----------------------------|-----------------------------|
| 0. Measurement discontinued | 5. Unable to locate well |
| 1. Pumping | 6. Well has been destroyed |
| 2. Pump house locked | 7. Special |
| 3. Tape hung up | 8. Casing leaking or wet |
| 4. Can't get tape in casing | 9. Temporarily inaccessible |

The words FLOW and DRY are shown in this column to indicate a flowing or dry well.

Water surface elevation is the elevation in feet above mean sea level (U.S.G.S. and U.S.C. & G.S. datum) of the water surface in the well. It was derived by machine computation by subtraction of the depth measurement from the reference point elevation.

Agency supplying data represents the code numbers for the agencies supplying water level data.

In this list of water levels, the agency furnishing the measurement is noted. The agencies and code numbers assigned to them are as follows:

<u>Agency Code</u>	<u>Agency</u>
5000	U. S. Geological Survey
5001	U. S. Bureau of Reclamation
5050	Department of Water Resources
5121	Kern County Water Agency
5129	Kings County Water District
5200	City of Fresno
5520	Oakdale Irrigation District
5521	Modesto Irrigation District
5524	Turlock Irrigation District
5525	Merced Irrigation District
5527	El Nido Irrigation District
5528	Chowchilla Water District
5529	Poso Soil Conservation District
5530	Madera Irrigation District
5602	Ivanhoe Irrigation District
5603	Kaweah Delta Water Conservation District
5605	Exeter Irrigation District
5606	Lindsay-Strathmore Irrigation District
5607	Lindmore Irrigation District
5608	Porterville Irrigation District
5609	Lower Tule Irrigation District
5611	Saucelito Irrigation District
5613	Delano-Earlimart Irrigation District
5614	South San Joaquin Municipal Utility District
5616	Shafter-Wasco Irrigation District
5626	Rag Gulch Water District
5631	Fresno Irrigation District
5636	Consolidated Irrigation District
5637	Alta Irrigation District
5640	Buena Vista Water Storage District
5644	Arvin-Edison Water Storage District

TABLE C-3
GROUND WATER LEVELS AT WELLS

WELL NO. & NUMBER	APPROX. DEPTH TO WATER SURFACE IN FEET	DATE	WELL NO. & NUMBER	APPROX. DEPTH TO WATER SURFACE IN FEET	DATE	WELL NO. & NUMBER	APPROX. DEPTH TO WATER SURFACE IN FEET	DATE	WELL NO. & NUMBER	APPROX. DEPTH TO WATER SURFACE IN FEET	DATE	WELL NO. & NUMBER	APPROX. DEPTH TO WATER SURFACE IN FEET	DATE	WELL NO. & NUMBER	APPROX. DEPTH TO WATER SURFACE IN FEET	DATE
CENTRAL VALLEY REGION																	
SAN JOAQUIN VALLEY																	
OAKDALE IRRIGATION DISTRICT																	
1S/09E-16J01	119.0	10-01-69	63.0	56.0	5520	1S/09E-01A02	73.0	10-06-69	14.3	54.7		1S/04E-22C02	64.0	10-06-69	15.5	48.5	5050
		10-31-69	61.3	57.1				11-07-69	14.2	48.8				12-02-69	14.6	46.4	
		12-01-69	61.6	57.4				12-02-69	14.9	44.1				1-02-70	14.4	46.4	
		1-02-70	61.4	57.6				2-05-70	13.9	50.1				3-03-70	13.6	50.4	
		2-02-70	61.3	57.7				3-03-70	14.6	53.4				4-02-70	20.0	53.0	
		3-02-70	61.1	57.9				4-02-70	14.6	53.4				5-04-70	12.4	51.6	
		3-31-70	61.1	57.9				6-04-70	14.2	51.4							
		5-01-70	61.0	58.0													
		5-29-70	61.4	58.7													
1S/09E-16A01	145.0	3-00-70	51.2	93.8	5520												
1S/10E-19J01	146.5	10-01-69	53.3	93.2	5520												
		10-31-69	53.1	93.4													
		12-01-69	53.4	93.1													
		1-02-70	53.6	93.0													
		2-02-70	53.7	92.8													
		4-02-70	53.8	92.7													
		5-31-70	53.6	92.9													
		6-01-70	54.3	92.2													
		5-29-70	54.2	92.3													
1S/10E-26J01	193.0	3-00-70	92.7	110.3	5520												
2S/04E-26F01	132.0	10-01-69	51.4	80.5	5520												
		10-31-69	50.6	81.4													
		12-01-69	51.1	80.9													
		1-02-70	50.7	81.4													
		2-02-70	49.5	80.5													
		3-02-70	50.1	81.9													
		5-31-70	NM-1														
		6-01-70	51.5	79.5													
		5-29-70	51.3	80.2													
2S/10E-04H01	185.5	10-01-69	77.5	109.0	5520												
		10-31-69	76.2	111.3													
		12-01-69	75.8	109.7													
		1-02-70	75.6	109.4													
		2-02-70	75.6	109.0													
		3-02-70	75.7	109.9													
		3-31-70	76.0	109.5													
		5-01-70	77.6	107.9													
		5-29-70	76.3	107.2													
2S/10E-33J01	165.0	3-00-70	50.7	106.3	5520												
2S/11E-29B01	218.0	10-01-69	94.7	123.3	5520												
		10-31-69	92.5	123.5													
		12-01-69	91.4	126.6													
		1-02-70	90.5	127.5													
		2-02-70	90.7	129.0													
		3-02-70	89.9	129.7													
		5-31-70	90.4	127.6													
		6-01-70	91.4	126.6													
		5-29-70	91.9	126.2													
2S/11E-31N01	192.0	3-00-70	72.4	114.6	5520												
2S/12E-31K01	190.0	3-00-70	41.5	148.5	5520												
3S/10E-15A01	152.0	10-01-69	46.7	105.4	5520												
		10-31-69	44.6	107.4													
		12-01-69	44.2	107.5													
		1-02-70	44.0	109.0													
		2-02-70	43.9	108.1													
		3-02-70	43.8	108.2													
		3-31-70	44.1	107.9													
		5-01-70	44.6	107.4													
		5-29-70	44.2	107.3													
3S/11E-19D01	162.0	3-00-70	52.0	110.0	5520												
MUOESTO IRRIGATION DISTRICT																	
2S/09E-25F01	94.0	3-02-70	30.3	65.7	5521	4S/09E-22H01	66.0	10-01-69	6.6	49.4	5050						
2S/09E-30P01	93.0	10-06-69	29.9	68.1	5050			11-07-69	7.3	47.7							
		11-07-69	25.3	67.7				12-01-69	7.2	47.4							
		12-02-69	27.0	68.0				1-02-70	7.9	47.1							
		1-02-70	26.8	68.2				2-03-70	6.8	44.2							
		2-05-70	24.6	65.4				3-02-70	6.3	44.8							
		3-03-70	24.7	65.3				4-01-70	7.8	47.2							
		4-02-70	24.4	65.6				5-04-70	7.7	47.3							
		5-04-70	21.7	71.3				6-02-70	8.4	46.6							
		6-08-70	20.1	72.4													
2S/04E-31G01	100.3	3-02-70	27.2	71.1	5521	4S/04E-21N01	74.0	1-03-70	9.7	49.3	5524						
3S/07E-12C01	47.0	10-06-69	6.3	40.7	5040	4S/10E-15A01	149.7	1-01-70	6.1	113.9	5524						
		11-07-69	6.1	38.9				4S/11E-29B01	141.5	1-01-70	DNY	5524					
		12-02-69	9.7	34.7				4S/11E-31N01	129.0	3-03-70	11.6	116.5	5524				
		1-02-70	9.4	35.7				4S/09E-01N01	53.0	3-03-70	6.7	46.3	5524				
		2-05-70	7.5	39.2				5S/04E-10A01	44.0	3-03-70	12.1	31.9	5524				
		3-03-70	7.6	39.4				4S/04E-04A01	70.0	10-06-69	6.4	43.6	5050				
		4-02-70	5.4	41.6						11-07-69	4.6	44.4					
		5-04-70	5.3	41.7						12-02-69	5.4	44.6					
		6-08-70	4.2	42.8						1-02-70	7.3	47.3					
										2-04-70	7.0	43.0					
										3-03-70	7.9	42.1					
										4-02-70	7.5	42.6					
										5-04-70	7.6	46.1					
										6-02-70	8.4	46.6					
3S/07E-35A02	40.0	10-06-69	3.5	36.5	5050	5S/04E-14B01	76.0	3-03-70	6.3	69.7	5524						
		11-07-69	3.3	36.7				4S/04E-24N01	76.0	3-03-70	4.9	79.1	5524				
		12-02-69	5.4	34.6				5S/04E-25N01	65.0	3-03-70	4.6	64.4	5524				
		1-02-70	6.1	33.9													
		2-05-70	4.9	35.1													
		3-03-70	5.6	34.4													
		4-02-70	4.9	35.1													

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
TURLOCK IRRIGATION DISTRICT (Cont.) 5-22-08						EL NIDO IRRIGATION DISTRICT 5-22-10					
5S/10E-19R01 M	82.0	3-02-70	4.8	77.2	5524	9S/13E-14H01 M	133.0	2-00-70	68.0	65.0	5527
5S/10E-21R01 M	92.0	3-02-70	7.4	84.6	5524	9S/14E-20B01 M	152.0	2-00-70	56.0	96.0	5527
5S/11E-06J02 M	124.0	10-06-69	9.4	114.6	5050	DELTA-MENDOTA AREA 5-22-11					
		11-07-69	5.8	118.2		4S/06E-09R01 M	166.3	10-14-69	129.5	36.8	5001
		12-03-69	5.6	118.4				3-11-70	111.0	55.3	
		1-05-70	5.9	118.1		4S/07E-27M01 M	73.0	10-14-69	21.9	51.1	5001
		2-03-70	6.2	117.8				3-17-70	22.8	50.2	
		3-04-70	7.8	116.2		5S/07E-13K01 M	107.0	10-14-69	NM-0		5001
		4-06-70	8.6	115.4		5S/07E-14D01 M	130.4	3-18-70	75.7	54.7	5001
		5-04-70	9.9	114.1		5S/07E-23L01 M	138.0	10-00-69	NM-0		5050
		6-02-70	9.8	114.2		5S/08E-32K01 M	90.9	10-20-69	6.2	84.7	5001
5S/11E-21N01 M	125.0	3-02-70	8.2	116.8	5524			3-18-70	7.5	83.4	
5S/11E-30A01 M	117.0	3-02-70	12.7	104.3	5524	6S/07E-12F01 M	248.3	10-10-69	11.9	236.4	5050
5S/11E-33N01 M	115.5	3-02-70	7.1	108.4	5524	6S/08E-10H02 M	80.0	3-00-70	NM-7		5050
6S/09E-15R01 M	60.0	3-03-70	NM-7		5524	6S/08E-16M01 M	129.5	10-10-69	55.9	73.6	5050
6S/10E-21A01 M	85.6	3-02-70	4.8	80.8	5524	6S/08E-21R02 M	133.0	10-00-69	NM-0		5050
6S/10E-28D01 M	83.6	3-02-70	10.5	73.1	5524	6S/08E-27J01 M	114.5	10-10-69	41.6	72.9	5050
6S/11E-06N01 M	106.2	3-02-70	10.0	96.2	5524			3-11-70	39.4	75.1	
6S/11E-08R01 M	116.2	3-02-70	11.4	104.8	5524	6S/08E-29J01 M	190.0	3-11-70	NM-4		5050
MERCED IRRIGATION DISTRICT 5-22-09						7S/08E-22L01 M	127.9	10-16-69	48.2	79.7	5050
6S/12E-22N01 M	150.0	10-01-69	20.1	129.9	5050	7S/09E-04R01 M	65.6	10-16-69	18.3	47.3	5050
		11-03-69	20.2	129.8		7S/09E-26N01 M	68.4	10-14-69	6.7	61.7	5050
		12-01-69	19.9	130.1		8S/08E-01N01 M	123.2	10-16-69	16.0	107.2	5050
		1-05-70	18.1	131.9				3-18-70	22.7	100.5	
		2-02-70	18.0	132.0		8S/08E-15J01 M	172.8	3-18-70	NM-7		5050
		3-05-70	16.1	133.9		8S/09E-26H01 M	75.0	10-14-69	27.4	47.0	5050
		4-01-70	18.8	131.2				3-13-70	10.0	65.6	
		5-04-70	19.0	131.0		8S/09E-26H03 M	75.0	10-14-69	5.1	69.9	5050
		6-03-70	19.3	130.7				3-13-70	0.7	74.3	
6S/14E-32N01 M	178.3	3-00-70	12.6	165.7	5525	8S/10E-21L04 M	75.0	10-14-69	6.2	68.8	5050
7S/10E-01N01 M	90.5	3-00-70	8.2	82.3	5525	9S/08E-24A01 M	157.0	3-12-70	NM-4		5050
7S/11E-01R01 M	118.0	10-01-69	13.0	105.0	5050	9S/09E-14N01 M	96.0	10-00-69	NM-0		5050
		11-03-69	13.2	104.8		9S/09E-18N01 M	153.6	10-15-69	26.7	126.9	5050
		12-01-69	11.2	106.8		9S/09E-23L01 M	100.0	10-15-69	46.1	53.9	5050
		1-05-70	11.3	106.7				3-12-70	36.2	63.8	
		2-02-70	11.0	107.0		9S/10E-19B01 M	84.0	10-14-69	2.4	81.6	5050
		3-05-70	10.2	107.8		9S/10E-23J01 M	87.0	3-13-70	30.8	56.2	5050
		4-01-70	11.5	106.5		9S/11E-16H01 M	91.0	10-08-69	8.5	82.5	5050
		5-04-70	9.0	109.0		9S/12E-20J01 M	90.5	10-08-69	42.1	48.4	5050
		6-03-70	10.3	107.7				3-13-70	43.8	46.7	
7S/11E-13N01 M	106.6	3-00-70	4.3	102.3	5525	10S/09E-06A01 M	147.0	10-06-69	8.8	139.2	5050
7S/12E-12D01 M	144.0	10-01-69	9.3	134.7	5050			3-16-70	9.7	137.3	
		11-03-69	10.3	133.7		10S/09E-08B01 M	167.0	10-06-69	76.4	90.6	5050
		12-01-69	10.7	133.3				3-16-70	75.2	91.8	
		1-05-70	11.3	132.7		10S/10E-02R01 M	99.5	10-06-69	21.0	78.5	5050
		2-02-70	11.2	132.8				3-14-70	19.2	80.3	
		3-05-70	11.3	132.7		10S/10E-11R01 M	106.6	10-06-69	21.9	84.7	5050
		3-26-70	11.3	132.7		10S/10E-31Q01 M	191.1	10-00-69	NM-0		5050
		5-04-70	9.7	134.3		10S/10E-32N01 M	189.5	10-06-69	141.3	48.2	5050
		6-03-70	11.1	132.9		10S/11E-27E02 M	101.3	10-07-69	49.5	51.8	5050
7S/12E-12R01 M	147.5	3-00-70	14.1	133.4	5525			3-13-70	48.0	53.3	
7S/13E-16N01 M	152.1	3-00-70	11.5	140.6	5525	11S/10E-11J01 M	157.3	10-07-69	53.0	104.3	5050
7S/13E-26D01 M	155.8	10-01-69	8.9	146.9	5050			3-12-70	55.0	102.3	
		11-03-69	9.4	146.4		11S/10E-22Q01 M	246.8	10-03-69	111.7	135.1	5050
		12-01-69	9.7	146.1		11S/11E-02J02 M	106.0	10-02-69	3.7	102.3	5050
		1-05-70	10.8	145.9		11S/11E-22K01 M	114.2	10-02-69	NM-6		5050
		2-02-70	10.3	145.5		11S/11E-22Q03 M	114.0	10-02-69	13.7	100.3	5050
		3-05-70	7.2	148.6		11S/12E-31C01 M	132.0	10-02-69	25.7	106.3	5050
		4-01-70	9.4	146.4		12S/12E-06D01 M	144.0	10-03-69	5.1	138.9	5001
		5-04-70	8.4	147.4				2-27-70	3.7	140.3	
		6-03-70	8.3	147.5		12S/12E-25D01 M	177.0	10-07-69	59.6	117.4	5001
7S/14E-11N01 M	192.0	10-01-69	12.1	179.9	5050			3-04-70	58.1	118.9	
		11-03-69	12.7	179.3							
		12-01-69	13.2	178.8							
		1-05-70	13.2	178.1							
		2-02-70	13.8	178.2							
		3-05-70	12.2	179.8							
		4-01-70	13.3	178.7							
		5-04-70	12.3	179.7							
		6-03-70	12.3	179.7							
7S/14E-16R01 M	137.0	3-00-70	17.3	173.3	5525						
8S/12E-01D01 M	120.0	3-00-70	4.5	115.5	5525						
8S/13E-09R01 M	135.0	3-00-70	4.8	130.2	5525						
8S/14E-01A01 M	147.1	3-00-70	9.4	187.8	5525						
8S/14E-10N01 M	172.6	10-01-69	5.4	167.2	5050						
		11-03-69	6.7	165.9							
		12-01-69	7.9	164.7							
		1-05-70	8.7	163.9							
		2-02-70	7.2	165.4							
		3-05-70	7.2	165.4							
		3-26-70	6.5	166.1							
		5-04-70	5.7	166.9							
		6-03-70	5.2	167.4							

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE ELEVATION IN FEET	WATER LEVEL ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE ELEVATION IN FEET	WATER LEVEL ELEVATION IN FEET	AGENCY SUPPLYING DATA
DELTA-MENDOTA AREA (Cont.)						MADERA IRRIGATION DISTRICT					
5-22-11						5-22-13					
12S/17E-25D02 M	177.0	10-07-69 3-04-70	7.6 6.0	169.4 171.0	5001	11S/18E-10N01 M (Cont.)	204.0	12-31-69 1-02-70	4.6 NM-0	149.8	5001
12S/17E-10N01 M	144.0	10-00-70	NM-7		5001	11S/17E-27C01 M	250.6	2-05-70	71.3	179.3	5530
CHOWCHILLA WATER DISTRICT						11S/18E-20N01 M	272.5	2-02-70	77.1	195.4	5530
5-22-12						11S/18E-27M01 M	284.0	10-30-69 11-28-69 12-31-69 1-30-70 2-27-70 3-30-70 4-30-70 5-28-70	77.3 75.7 75.1 76.0 80.2 81.5 80.4 81.3	206.7 207.3 206.9 208.0 203.9 202.5 203.6 202.7	5001
9S/14E-25R01 M	184.0	2-13-70	55.0	129.0	5528	12S/18E-25A01 M	205.4	2-04-70	70.2	135.2	5530
9S/15E-25J02 M	230.0	2-14-70	39.5	190.5	5528	12S/17E-09Q01 M	210.0	10-30-69 11-28-69 12-31-69 1-30-70 2-27-70 3-30-70 4-30-70 5-28-70	79.7 73.8 72.8 72.5 74.9 76.5 77.5	150.3 154.1 156.2 157.2 155.1 151.5 152.5	5001
9S/15E-27A01 M	216.5	10-23-69 11-20-69 12-23-69 2-01-70 2-25-70 3-25-70 4-24-70 5-25-70	NM-1 92.2 93.9 88.0 86.3 83.0 NM-1 NM-1	124.3 122.6 128.5 130.2 133.5	5001	12S/17E-21N01 M	228.0	2-04-70	48.4	179.6	5530
9S/16E-22R01 M	267.0	10-23-69 11-20-69 12-23-69 2-03-70 2-25-70 3-25-70 4-24-70 5-25-70	40.4 40.0 39.0 39.0 39.0 39.5 39.2	226.6 227.0 228.0 228.0 227.5	5001	12S/17E-26C01 M	215.0	10-30-69 11-28-69 12-31-69 1-30-70 2-27-70 3-30-70 4-30-70 5-28-70	57.7 55.2 55.1 54.7 55.3 60.3 60.8 62.0	177.3 179.8 180.1 179.7 174.7 174.2 173.0	5001
9S/17E-19L01 M	242.0	2-12-70	90.1	201.9	5528	12S/17E-34R01 M	214.0	10-30-69 11-28-69 12-31-69 1-30-70 2-27-70 3-30-70 4-30-70 5-28-70	50.4 48.4 48.1 48.2 43.0 51.1 50.1 50.6	181.6 185.6 185.9 186.8 185.0 182.9 181.4	5001
9S/17E-35J01 M	320.0	10-07-69 2-12-70	88.0 88.0	232.0 212.0		12S/18E-13R01 M	288.0	10-30-69 11-28-69 12-31-69 1-30-70 2-27-70 3-30-70 4-30-70 5-28-70	76.6 76.3 76.0 75.6 75.0 74.1 77.1 77.7	211.4 212.7 212.4 213.0 213.9 210.9 210.3	5001
9S/18E-33Q01 M	362.0	10-07-69 2-12-70	52.6 55.2	309.4 306.9	5001	12S/18E-21Q01 M	265.0	2-03-70	65.2	199.8	5530
10S/14E-01A01 M	179.0	10-23-69 11-20-69 12-23-69 2-01-70 2-25-70 3-25-70 4-24-70 5-25-70	73.4 72.0 74.6 67.0 67.4 64.7 NM-1 NM-1	105.6 107.0 104.4 112.0 111.6 109.3	5001	12S/18E-21M01 M	267.0	10-30-69 11-28-69 12-31-69 1-30-70 2-27-70 3-30-70 4-30-70 5-28-70	67.9 65.7 65.7 64.8 64.0 66.1 66.6 67.9	199.1 201.3 201.2 202.2 203.0 200.9 199.1	5001
10S/14E-01R02 M	177.0	2-12-70	57.2	119.8	5528	12S/14E-28A01 M	307.0	10-02-69 2-03-70	82.4 85.4	224.4 221.6	5001
10S/14E-24R01 M	167.0	10-23-69 11-20-69 12-23-69 2-03-70 2-25-70 3-25-70 4-24-70 5-25-70	78.5 79.2 77.0 65.7 67.4 70.0 NM-1 NM-1	88.5 87.5 95.0 101.3 99.6 97.0	5001	WEST CHOWCHILLA-MADERA AREA					
10S/15E-02Q01 M	212.5	10-23-69 11-20-69 12-23-69 2-03-70 2-25-70 3-25-70 4-24-70 5-25-70	85.6 77.0 75.4 70.6 68.5 72.2 70.0 82.7	127.0 135.5 136.6 142.0 144.0 140.3 133.0 114.4	5001	10S/13E-22R01 M	119.0	10-07-69 2-04-70	15.6 13.5	107.4 105.4	5001
10S/15E-23K01 M	195.5	2-13-70	61.7	133.8	5528	10S/14E-09R03 M	147.0	10-23-69 11-20-69 12-23-69 2-03-70 2-25-70 3-25-70 4-24-70 5-25-70	75.2 74.7 72.3 69.6 68.5 67.5 74.7 69.3	64.8 73.3 72.3 77.5 78.5 70.5 71.3 77.7	5001
10S/15E-27D03 M	184.0	10-23-69 11-20-69 12-23-69 2-03-70 2-25-70 3-25-70 4-24-70 5-25-70	69.3 69.7 67.5 64.7 66.0 63.3 77.2 NM-1	114.7 124.3 116.5 119.3 118.0 120.7	5001	10S/14E-41N01 M	110.0	10-23-69 11-20-69 12-23-69 2-03-70 2-25-70 3-25-70 4-24-70 5-25-70	31.6 31.6 21.0 27.7 11.2 35.6 27.0 22.6	94.4 91.6 105.0 102.3 98.8 94.4 101.0 97.4	5001
10S/16E-04E01 M	232.0	10-23-69 11-20-69 12-23-69 2-03-70 2-25-70 3-25-70 4-24-70 5-25-70	76.6 74.2 76.5 71.7 70.6 71.7 77.2 NM-1	155.4 157.8 165.5 160.3 161.4 160.3 154.8	5001	10S/14E-35P01 M	151.0	10-23-69 11-20-69 12-23-69 2-03-70 2-25-70 3-25-70 4-24-70 5-25-70	70.6 71.8 68.5 65.7 64.4 67.7 64.5	80.5 79.2 84.5 85.3 86.6 93.3 86.5	5001
10S/16E-24R01 M	208.0	2-11-70	60.6	147.4	5528	11S/14F-14N01 M	150.0	10-24-69 11-20-69 12-23-69 2-01-70 2-26-70 3-26-70	NM-1 NM-1 NM-1 26.4 26.2 29.9	126.1 123.6 124.8 120.1	5001
MADERA IRRIGATION DISTRICT						5-22-13					
10S/15E-20R01 M	326.0	10-02-69 2-11-70	72.9 70.6	253.1 255.4	5001	10S/14E-13E01 M	151.0	10-23-69 11-20-69 12-23-69 2-03-70 2-25-70 3-25-70 4-24-70 5-25-70	70.6 71.8 68.5 65.7 64.4 67.7 64.5	80.5 79.2 84.5 85.3 86.6 93.3 86.5	5001
10S/19E-16D01 M	387.0	10-02-69 2-12-70	19.2 21.2	467.8 465.0	5001	11S/14F-14N01 M	150.0	10-24-69 11-20-69 12-23-69 2-01-70 2-26-70 3-26-70	NM-1 NM-1 NM-1 26.4 26.2 29.9	126.1 123.6 124.8 120.1	5001
11S/16E-06A01 M	196.0	10-30-69 11-28-69 12-31-69 1-30-70 2-27-70 3-30-70 4-30-70 5-28-70	63.6 61.0 68.4 66.6 66.7 68.4 67.7 68.4	132.4 135.0 137.6 139.4 139.3 137.6	5001	11S/16E-10N01 M	204.0	10-30-69 11-28-69	56.1 55.6	148.4	5001

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

TOTL WELL NUMBER	SHOULDER ELEVATION IN FEET	DATE	GROUND SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
WEST CHOKCHILLA-MADERA AREA						FRESNO IRRIGATION DISTRICT					
5-22.14						5-22.15					
115/14E-13R01 M (Cont.)	150.0	4-21-70 5-28-70	NW-1 NW-1	5001		14S/18E-08J01 M (Cont.)	227.4	2-02-70 2-27-70 4-21-70 6-01-70	53.6 53.3 62.2 NM-1	173.5 164.1 164.7 166.3	5631
115/15E-13E01 M	150.0	2-06-70	38.4	5001		14S/19E-20R02 M	245.0	10-31-69 11-28-69 1-02-70 2-02-70 2-27-70 3-31-70 4-30-70 6-01-70	50.1 45.6 45.5 45.0 47.4 48.0 46.9 45.9	194.9 196.4 195.5 197.0 197.6 195.1 195.1 198.1	5631
115/15E-13F01 M	159.0	10-24-69 11-20-69 12-24-69 2-04-70 2-26-70 3-26-70 4-21-70 5-29-70	47.6 37.5 36.5 34.7 63.5 68.5 60.5 79.9	5001		14S/20E-06J01 M	274.4	10-31-69 11-28-69 1-02-70 2-02-70 2-27-70 3-31-70 4-30-70 6-01-70	63.2 63.2 63.2 61.5 60.5 63.5 58.7 63.5	216.2 216.2 216.2 217.9 219.0 215.9 220.7 215.6	5631
12S/15E-14L01 M	165.1	2-05-70	45.3	5001		14S/20E-13E02 M	282.5	10-31-69 11-28-69 1-02-70 2-02-70 2-27-70 3-31-70 4-30-70 6-01-70	32.2 30.3 30.5 30.1 30.3 29.3 25.4 25.4	250.3 250.2 252.0 252.4 252.2 253.7 257.1 257.1	5631
13S/16E-02C01 M	194.0	10-30-69 11-28-69 12-21-69 1-02-70	69.2 67.6 59.3 NW-0	5001		CITY OF FRESNO					
5-22.15						5-22.16					
12S/20E-14A01 M	365.0	10-03-69 2-13-70	97.3 91.2	5001		13S/20E-21J01 M	310.0	3-01-70	96.0	214.0	5200
12S/21E-14A01 M	387.7	10-31-69 11-28-69 12-28-69 2-02-70 2-27-70 3-31-70 4-30-70 6-01-70	42.4 41.1 40.3 39.3 37.4 39.0 38.7 42.8	5631		13S/20E-23B01 M	325.0	10-02-69 10-30-69 12-01-69 12-31-69 1-29-70 2-26-70 3-26-70 5-00-70	94.7 93.0 92.0 91.1 91.3 90.3 90.3 NM-7	230.3 232.0 233.0 233.9 233.7 234.7 234.7 NM-7	5200
12S/22E-21B01 M	473.0	10-03-69 2-12-70	20.6 14.7	5001		13S/20E-28E01 M	294.3	10-02-69 10-30-69 12-01-69 12-31-69 1-29-70 2-26-70 3-26-70 5-00-70	91.7 90.0 88.2 87.3 86.0 85.3 85.4 NM-7	207.6 209.0 211.1 212.0 213.3 214.0 213.0 NM-7	5200
13S/17E-22B01 M	220.8	10-31-69 11-28-69 1-02-70 2-02-70 2-27-70 3-31-70 4-30-70 6-01-70	32.1 33.0 33.4 33.4 35.1 36.6 33.0 30.4	5631		13S/20E-35H02 M	305.3	10-02-69 10-30-69 12-01-69 12-31-69 1-29-70 2-26-70 3-26-70 5-00-70	87.2 85.7 82.6 81.3 81.2 80.8 80.8 NM-7	218.1 219.6 222.7 224.0 222.1 224.5 224.5 NM-7	5200
13S/17E-33D01 M	211.0	10-22-69 11-19-69 12-27-69 2-02-70 2-24-70 3-24-70 4-22-70 5-23-70	50.5 50.3 47.2 46.7 45.7 50.3 52.6 52.0	5001		14S/20E-10M01 M	291.4	10-02-69 10-30-69 12-01-69 12-31-69 1-29-70 2-26-70 3-26-70 5-00-70	93.9 80.5 78.5 75.0 74.7 73.4 72.5 NM-7	207.5 210.9 212.6 215.4 216.7 215.0 215.9 NM-7	5200
13S/18E-10P01 M	259.0	10-22-69 11-19-69 12-22-69 2-02-70 2-24-70 3-24-70 4-22-70 5-22-70	48.3 50.4 49.9 50.1 51.2 50.9 52.7 53.1	5001		FRESNO SLOUGH AREA					
13S/18E-16D01 M	253.0	10-02-69 2-11-70	47.8 49.2	5001		5-22.17					
13S/19E-34D01 M	245.0	10-22-69 11-19-69 12-22-69 2-02-70 2-24-70 3-24-70 4-22-70 5-22-70	57.8 52.5 50.7 54.5 53.3 43.5 54.2 52.5	5001		13S/15E-28H01 M	162.0	2-04-70	26.5	135.4	5001
13S/19E-09A01 M	288.2	10-31-69 11-28-69 1-02-70 2-02-70 2-27-70 3-31-70 4-30-70 6-01-70	65.1 65.0 64.1 62.8 62.7 64.0 64.4 64.0	5631		14S/15E-25H02 M	160.0	1-02-69 2-02-69 12-22-69 1-02-70	25.2 25.2 25.2 NM-0	134.4 134.5 134.5 NM-0	5001
13S/19E-16K01 M	290.0	10-22-69 11-19-69 12-22-69 2-02-70 2-24-70 3-24-70 4-22-70 5-22-70	75.8 77.0 77.0 76.7 78.2 79.7 82.0 80.9	5001		14S/16E-03C01 M	177.0	10-22-69 11-19-69 12-22-69 2-02-70 2-24-70 3-24-70 4-22-70 5-22-70	61.0 56.6 53.3 42.8 44.2 47.5 NM-1 NM-1	115.0 120.4 123.2 124.2 123.3 124.5 NM-1 NM-1	5001
13S/20E-02L01 M	339.0	10-31-69 11-28-69 12-28-69 2-02-70 2-27-70 3-31-70 4-30-70 6-01-70	98.6 91.1 90.8 90.3 90.2 88.9 91.7 90.9	5631		14S/16E-08D01 M	165.0	10-22-69 11-19-69 12-22-69 2-02-70 2-24-70 4-22-70 5-22-70	46.2 40.0 27.0 32.8 27.5 NM-1 NM-1	115.8 125.0 138.0 132.2 137.5 NM-1 NM-1	5001
13S/23E-31F01 M	409.5	3-00-70	23.3	5631		14S/17E-25A01 M	210.0	10-07-69 2-06-70	100.2 89.3	106.5 120.7	5001
14S/18E-08J01 M	217.4	10-31-69 11-28-69 1-02-70	62.8 59.9 59.6	5631		14S/16E-01L01 M	171.0	10-03-69	NM-0		5001

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

WELL NUMBER	WELL SURFACE ELEVATION IN FEET	DATE	WELL SURFACE ELEVATION IN FEET	WELL SURFACE ELEVATION IN FEET	WELL SURFACE ELEVATION IN FEET	WELL SURFACE ELEVATION IN FEET
FRESNO SLOUGH AREA (Cont.)						
5-22-17						
145/16E-12001	169.5	10-22-69	25.5	148.0	5001	
		11-13-69	25.2	144.3		
		12-22-69	25.5	144.0		
		2-02-70	25.5	144.0		
		2-24-70	26.9	142.5		
		3-24-70	27.9	141.6		
		4-22-70	28.5	141.0		
		5-22-70	27.4	141.6		
145/17E-22001	180.0	2-06-70	90.3	95.2		
155/17E-24001	182.0	10-22-69	65.4	116.5	5001	
		11-19-69	67.0	115.0		
		12-22-69	67.0	115.0		
		2-02-70	75.2	106.8		
		2-24-70	70.0	112.0		
		3-24-70	78.0	104.2		
		4-22-70	74.8	107.2		
		5-22-70	75.9	106.1		
155/19E-07A02	204.0	10-22-69	113.7	40.3	5001	
		11-10-69	112.0	92.0		
		12-22-69	108.0	95.0		
		2-02-70	101.4	102.1		
		2-24-70	104.2	99.3		
		3-24-70	110.7	91.3		
		4-22-70	114.0	90.0		
		5-22-70	111.0	93.0		
155/19E-16001	205.8	2-11-70	107.1	98.7		
165/17E-24001	185.0	2-00-70	NM-7			
165/19E-03001	206.0	10-02-69	NM-1	74.3	5050	
		10-11-69	131.7	74.3		
		11-23-69	125.0	71.0		
		1-09-70	125.0	83.0		
		2-03-70	122.2	83.8		
		3-09-70	122.5	83.5		
		4-06-70	NM-1			
		5-05-70	126.4	79.1		
		6-05-70	NM-1			
165/19E-27001	198.0	3-03-70	115.5	82.5	5050	
165/19E-34001	220.0	10-02-69	125.3	94.2	5050	
		10-11-69	118.0	102.0		
		11-23-69	102.5	117.5		
		1-06-70	98.5	121.5		
		2-03-70	96.0	121.4		
		3-09-70	96.7	123.3		
		4-06-70	111.2	126.5		
		5-05-70	113.0	107.0		
		6-05-70	113.5	106.5		
175/17E-12001	199.0	2-00-70	NM-7		5050	
175/19E-24001	200.0	3-04-70	60.5	139.5	5050	
CONSOLIDATED IRRIGATION DISTRICT						
5-22-18						
145/22E-22001	355.7	10-01-69	24.3	331.4	5636	
		11-03-69	23.5	332.2		
		12-01-69	23.4	332.3		
		1-02-70	21.1	337.6		
		2-02-70	22.5	333.2		
		3-02-70	22.4	334.3		
		3-31-70	22.3	334.4		
		4-01-70	22.6	333.1		
		6-01-70	22.7	333.0		
155/19E-24001	246.0	10-01-69	77.9	165.7	5636	
		11-01-69	75.1	171.4		
		12-01-69	72.9	173.7		
		1-02-70	71.2	175.4		
		2-02-70	70.1	176.5		
		3-02-70	68.4	177.7		
		3-31-70	77.3	170.7		
		4-01-70	75.3	170.8		
		6-01-70	80.0	166.6		
155/20E-29A01	254.3	10-01-69	60.4	214.4	5636	
		11-03-69	60.1	214.7		
		12-01-69	43.6	215.2		
		1-02-70	48.3	216.5		
		2-02-70	47.7	217.1		
		3-02-70	47.1	217.7		
		3-31-70	46.4	214.4		
		4-01-70	42.3	212.6		
		6-01-70	42.0	212.2		
155/21E-15001	301.2	10-01-69	26.6	276.6	5636	
		11-03-69	26.4	276.8		
		12-01-69	24.4	276.9		
		1-02-70	23.8	277.7		
		2-02-70	22.9	278.3		
		3-02-70	22.4	279.3		
		3-31-70	22.4	278.3		
		4-01-70	24.6	277.7		
		6-01-70	24.0	277.2		
155/22E-16A01	337.0	10-01-69	21.8	315.4	5636	
		11-03-69	20.9	316.1		
		12-01-69	20.3	316.9		
		1-02-70	14.9	317.1		
		2-02-70	13.4	317.6		
		3-02-70	13.3	317.7		
		3-31-70	20.4	316.6		
CONSOLIDATED IRRIGATION DISTRICT						
5-22-19						
155/22E-16A01	337.0	10-01-69	21.8	315.4	5636	
		11-03-69	20.9	316.1		
		12-01-69	20.3	316.9		
		1-02-70	14.9	317.1		
		2-02-70	13.4	317.6		
		3-02-70	13.3	317.7		
		3-31-70	20.4	316.6		
155/20E-29A01	254.3	10-01-69	60.4	214.4	5636	
		11-03-69	60.1	214.7		
		12-01-69	43.6	215.2		
		1-02-70	48.3	216.5		
		2-02-70	47.7	217.1		
		3-02-70	47.1	217.7		
		3-31-70	46.4	214.4		
		4-01-70	42.3	212.6		
		6-01-70	42.0	212.2		
155/21E-15001	301.2	10-01-69	26.6	276.6	5636	
		11-03-69	26.4	276.8		
		12-01-69	24.4	276.9		
		1-02-70	23.8	277.7		
		2-02-70	22.9	278.3		
		3-02-70	22.4	279.3		
		3-31-70	22.4	278.3		
		4-01-70	24.6	277.7		
		6-01-70	24.0	277.2		
155/22E-16A01	337.0	10-01-69	21.8	315.4	5636	
		11-03-69	20.9	316.1		
		12-01-69	20.3	316.9		
		1-02-70	14.9	317.1		
		2-02-70	13.4	317.6		
		3-02-70	13.3	317.7		
		3-31-70	20.4	316.6		
ALTA IRRIGATION DISTRICT						
5-22-19						
145/24E-36001	391.0	10-20-69	30.6	360.4	5637	
		11-20-69	30.4	360.6		
		12-10-69	33.6	367.4		
		1-20-70	26.0	366.5		
		3-05-70	32.4	367.7		
		4-01-70	34.4	361.6		
		5-01-70	27.1	363.9		
		6-03-70	30.3	361.1		
145/24E-31001	338.0	10-20-69	24.9	330.2	5637	
145/24E-29A01	356.0	10-20-69	29.0	329.0	5637	
		11-20-69	28.2	329.8		
		12-10-69	29.4	329.6		
		1-20-70	27.7	330.3		
		3-05-70	29.4	329.6		
		4-01-70	32.1	328.9		
		5-01-70	40.6	317.4		
		6-03-70	34.4	314.6		
145/24E-02001	388.0	10-20-69	3.7	378.3	5637	
		11-20-69	10.1	377.1		
		12-10-69	11.2	378.2		
		1-20-70	10.6	377.4		
		3-05-70	10.2	377.4		
		4-01-70	11.4	376.6		
		5-01-70	10.3	371.6		
		6-03-70	10.3	377.1		
145/24E-22001	314.0	10-20-69	14.3	294.7	5637	
		11-20-69	14.4	290.2		
		12-10-69	14.3	291.3		
		1-20-70	14.2	290.8		
		3-05-70	14.4	290.4		
		4-01-70	14.4	290.4		
		5-01-70	14.4	290.4		
		6-03-70	14.4	290.4		
145/24E-01001	388.0	10-20-69	17.4	319.0	5637	
		11-20-69	17.7	318.3		
		12-10-69	17.1	318.6		
		1-20-70	17.2	318.2		
		3-05-70	16.9	318.2		

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
ALTA IRRIGATION DISTRICT						ORANGE COVE IRRIGATION DISTRICT					
5-22-19						5-22-21					
16S/24E-21J01 M (Cont.)	336.0	4-01-70 5-02-70 6-01-70	17.3 20.7 19.4	318.7 315.3 316.6	5637	16S/24E-14D01 M (Cont.)	405.0	3-03-70 4-02-70 5-01-70 6-03-70	4.7 4.6 8.6 12.2	400.3 400.4 396.4 392.8	5001
16S/25E-29A01 M	364.0	10-29-69 11-24-69 12-27-69 1-28-70 3-03-70 4-01-70 5-02-70 6-01-70	14.2 14.5 15.5 13.9 13.9 16.2 22.4 17.7	349.8 349.5 348.5 350.2 350.1 347.8 341.6 346.3	5637	16S/25E-04C02 M	415.0	10-02-69 11-04-69 12-03-69 1-02-70 2-02-70 3-03-70 4-03-70 5-04-70 6-04-70	6.8 7.6 8.6 8.8 7.5 7.3 7.1 7.4 7.5	409.2 407.4 406.4 406.2 407.5 407.7 407.9 407.6 407.5	5001
17S/22E-25A01 M	276.0	10-28-69 11-25-69 12-29-69 1-27-70 2-02-70 4-02-70 5-01-70 6-02-70	29.4 27.9 26.7 25.8 26.6 28.5 30.0 NM-1	246.6 248.1 249.3 250.2 249.4 247.5 246.0	5637	STONE CORRAL IRRIGATION DISTRICT					
						5-22-22					
17S/22E-25J01 M	275.0	10-28-69 11-25-69 12-29-69 1-27-70 3-02-70 4-02-70 5-01-70 6-02-70	31.5 29.5 28.2 27.8 28.0 28.9 30.3 NM-1	243.5 245.5 246.8 247.2 247.0 245.1 244.9	5637	17S/25E-01D01 M	355.0	10-24-69 11-26-69 12-24-69 1-22-70 2-26-70 3-25-70 4-23-70 5-27-70	NM-7 22.3 22.6 20.2 20.0 20.9 20.5 21.7	332.7 332.4 334.8 334.8 334.1 334.5 333.3	5001
17S/25E-10C01 M	335.0	3-03-70 9-30-70	25.0 28.6	310.0 306.4	5637	17S/26E-07R01 M	354.0	10-24-69 11-26-69 12-24-69 1-22-70 2-26-70 3-25-70 4-23-70 5-27-70	8.6 5.6 6.1 4.0 3.3 3.2 3.2 3.8	355.4 358.4 358.8 360.0 360.7 360.8 360.8 360.2	5001
17S/25E-18R01 M	321.0	3-03-70 9-30-70	46.7 53.7	274.3 267.3	5637	IVANHOE IRRIGATION DISTRICT					
						5-22-23					
LOWER KINGS RIVER AREA											
5-22-20											
17S/19E-14J01 M	217.0	3-00-70	NM-9		5050	17S/25E-27R01 M	350.0	2-02-70	80.0	270.0	5602
17S/20E-20D01 M	223.0	10-02-69 10-31-69 11-28-69 1-06-70 2-03-70 3-08-70 4-06-70 5-05-70 6-05-70	58.4 56.7 56.1 52.5 51.7 50.1 52.8 52.8 62.0	164.6 166.3 168.1 170.5 171.3 172.5 170.2 161.0	5050	17S/25E-35M01 M	349.0	10-03-69 11-04-69 12-01-69 12-26-69 2-02-70 3-01-70 4-01-70 5-01-70 6-02-70	73.9 73.5 70.5 69.7 68.5 63.5 62.5 64.8 68.5	275.1 275.5 278.5 279.3 289.5 285.5 286.5 286.8 280.5	5001
17S/21E-11K01 M	257.0	10-02-69 10-31-69 11-28-69 1-06-70 2-03-70 3-09-70 4-06-70 5-05-70 6-05-70	37.1 34.6 32.9 31.2 30.0 28.0 31.0 31.6 62.0	213.9 222.4 225.6 225.8 227.0 228.0 226.0 225.4	5050	17S/25E-36R01 M	365.0	10-03-69 11-04-69 12-01-69 12-26-69 2-02-70 3-01-70 4-01-70 5-01-70 6-02-70	65.9 63.2 62.8 63.6 61.9 60.0 58.3 NM-1 64.8	299.1 301.8 302.2 301.4 303.1 305.0 306.7 300.2	5001
18S/19E-35J02 M	211.0	3-09-70	128.0	83.0	5050	17S/26E-32N01 M	385.0	10-03-69 11-04-69 12-01-69 12-26-69 2-02-70 3-01-70 4-01-70 5-01-70 6-02-70	NM-1 57.2 NM-1 56.0 54.4 52.7 50.8 51.9 NM-1	327.8	5001
18S/20E-16A01 M	230.0	3-03-70	6.5	23.5	5050	17S/26E-34D01 M	416.0	10-03-69 11-04-69 12-01-69 12-26-69 2-02-70 3-01-70 4-01-70 5-01-70 6-02-70	52.8 52.0 51.8 51.1 49.2 46.0 42.5 47.0 51.0	363.2 364.0 364.2 364.9 366.8 370.0 373.5 369.0 365.0	5001
18S/21E-10R01 M	254.0	10-02-69 10-31-69 11-28-69 1-06-70 2-03-70 3-09-70 4-06-70 5-05-70 6-05-70	57.3 60.7 54.3 51.5 50.4 52.5 66.0 NM-1 71.0	136.7 135.3 199.7 202.5 203.6 201.5 188.0 183.0	5050	KAWAHEE DELTA WATER CONSERVATION DISTRICT					
						5-22-24					
19S/19E-25A01 M	208.0	3-03-70	1.5	206.5	5050	17S/25E-15P01 M	340.0	10-24-69 11-26-69 12-24-69 1-22-70 2-26-70 3-25-70 4-23-70 5-27-70	NM-1 85.2 86.0 81.0 77.8 NM-1 NM-1 94.0	254.8 254.0 259.0 262.2 262.2 262.2 246.0	5001
20S/22E-19M02 M	211.0	10-02-69 10-31-69 11-28-69 1-06-70 2-03-70 3-09-70 4-06-70 5-05-70 6-05-70	17.5 17.6 17.6 17.6 17.1 16.2 16.1 16.1 17.2	193.5 193.4 193.4 193.4 193.9 194.8 194.4 193.8	5050	17S/26E-17P02 M	385.0	2-02-70	8.4	376.6	5001
ORANGE COVE IRRIGATION DISTRICT						17S/27E-34P01 M	470.0	2-02-70	12.5	457.5	5001
						18S/22E-29A01 M	251.0	2-20-70	81.2	169.8	5129
14S/24E-29C02 M	430.5	10-02-69 11-03-69 12-01-69 1-07-70 2-02-70 3-03-70 4-02-70 5-01-70 6-03-70	NM-1 32.3 35.6 38.5 38.8 38.5 36.7 37.1 NM-1	398.2 394.0 392.0 391.7 392.0 393.8 393.4	5001	18S/23E-12M01 M	282.5	10-30-69 12-03-69 12-29-69 1-28-70 2-27-70 3-30-70 4-30-70 6-03-70	48.0 44.0 42.2 40.5 39.3 38.4 48.5 50.1	234.5 238.5 240.3 246.0 243.2 244.1 238.0 232.4	5001
14S/25E-10D01 M	510.0	1-30-70	18.8	491.2	5001						
15S/24E-14D01 M	405.0	10-02-69 11-03-69 12-02-69 1-02-70 2-02-70	10.9 12.4 12.2 12.2 5.9	392.6 392.6 392.8 392.8 399.1	5001						

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

TATI WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
KAWAHE DELTA WATER CONSERVATION DISTRICT (Cont.)					
			5-22-24		
18S/23E-34A01 M	271.0	10-06-69 2-20-70	99.7 89.0	171.3 182.0	5129
18S/24E-26A01 M	312.5	10-02-69 2-09-70	50.1 45.0	262.4 267.5	5001
18S/25E-12Q01 M	363.0	10-01-69 2-04-70	42.5 31.1	320.5 331.9	5001
18S/25E-33P01 M	338.0	2-02-70	25.0	313.0	5603
18S/26E-27E01 M	389.0	10-01-69 2-03-70	13.3 11.9	375.7 377.1	5001
18S/26E-30W01 M	367.0	10-30-69 12-04-69 12-29-69 1-28-70 2-27-70 3-30-70 4-30-70 6-03-70	14.6 14.0 14.2 13.8 14.1 14.5 14.6 23.0	352.4 353.0 362.3 353.2 352.9 362.5 363.4 344.0	5001
19S/22E-01W02 M	245.0	10-07-69 2-09-70	50.3 50.5	194.7 194.5	5129
19S/25E-07K01 M	320.0	10-30-69 12-03-69 12-29-69 1-28-70 2-27-70 3-30-70 4-30-70 6-03-70	20.0 19.6 22.7 29.6 24.4 25.1 30.8 32.8	300.0 300.4 297.3 294.4 295.6 294.9 294.2 287.2	5001
19S/26E-34R02 M	341.0	10-24-69 11-26-69 12-24-69 1-22-70 2-26-70 3-25-70 4-23-70 5-27-70	82.0 73.0 70.0 71.0 63.2 74.0 NM-1 NM-1	264.0 268.0 271.0 270.1 277.8 267.0	5001
20S/22E-10W01 M	226.0	2-23-70	80.4	145.6	5129
20S/25E-14P01 M	304.5	10-23-69 11-25-69 12-23-69 1-21-70 2-25-70 3-24-70 4-22-70 5-26-70	46.4 41.5 42.2 40.7 42.6 46.6 45.6 60.6	258.1 263.0 262.3 261.5 261.9 258.0 268.9 243.9	5001
TULARE IRRIGATION DISTRICT					
			5-22-25		
19S/23E-14R01 M	270.0	10-30-69 12-04-69 12-29-69 1-24-70 2-26-70 3-27-70 4-30-70 5-28-70	65.0 65.3 62.5 62.7 61.0 61.2 66.0 63.3	205.0 205.7 207.5 207.3 206.0 206.8 204.0 206.7	5001
19S/23E-32W01 M	251.0	2-23-70	85.5	165.5	5129
19S/24E-16P01 M	290.0	10-30-69 12-04-69 12-29-69 1-23-70 2-26-70 3-27-70 4-30-70 5-28-70	62.6 66.4 65.0 63.7 63.8 66.4 77.1 81.1	227.4 223.6 226.0 226.3 226.2 221.5 212.7 206.4	5001
19S/24E-27Q01 M	290.0	10-30-69 12-04-69 12-29-69 1-24-70 2-26-70 3-27-70 4-30-70 5-29-70	75.0 71.7 71.0 69.7 74.4 75.7 72.0 58.0	215.0 218.1 213.0 220.7 221.6 214.3 208.0 202.6	5001
19S/24E-17A02 M	328.0	10-30-69 12-04-69 12-29-69 1-24-70 2-26-70 3-27-70 4-30-70 5-28-70	31.6 26.5 26.8 29.6 29.0 31.2 37.2 30.5	296.4 294.5 294.2 294.6 294.0 296.3 290.4 291.4	5001
20S/23E-06B02 M	241.0	10-30-69 12-04-69 12-29-69 1-24-70 2-26-70 3-27-70 4-30-70 5-28-70	85.5 82.5 82.0 80.2 79.4 79.4 80.3 82.5	156.5 148.1 156.7 163.7 161.2 161.2 160.3 149.4	5001
20S/24E-16W01 M	273.0	10-02-69 10-30-69 12-04-69	48.4 80.5 76.9	184.6 192.7 186.1	5001
TULARE IRRIGATION DISTRICT					
			5-22-25		
20S/24E-16W01 M	273.0	12-29-69 1-29-70 2-26-70 3-27-70 4-30-70 5-28-70	75.4 74.2 75.7 88.0 90.7 98.0	197.6 198.8 198.3 185.0 182.3 175.0	5001
20S/24E-30J02 M	250.0	10-02-69 10-30-69 12-04-69 12-29-69 1-29-70 2-26-70 3-27-70 4-28-70	88.6 92.0 91.9 95.0 84.0 82.1 80.0 82.0	161.4 158.0 155.2 165.0 166.0 167.9 161.0 158.0	5001
21S/23E-05R01 M	222.0	10-02-69 10-30-69 12-04-69 12-29-69 1-29-70 2-26-70 3-27-70 4-30-70 5-28-70	75.4 73.5 73.5 75.2 64.5 67.7 NM-1 NM-1 NM-1	146.4 148.5 150.4 152.3 153.5 164.3 161.0 158.0	5001
EXETER IRRIGATION DISTRICT					
			5-22-26		
19S/26E-25K01 M	436.0	10-24-69 11-26-69 12-24-69 1-22-70 2-26-70 3-25-70 4-23-70 5-27-70	39.9 38.6 38.3 37.5 36.7 36.5 36.5 37.9	396.1 397.4 397.7 398.5 400.3 401.5 400.5 398.1	5001
18S/26E-34P02 M	391.0	10-24-69 11-26-69 12-24-69 1-22-70 2-26-70 3-25-70 4-23-70 5-27-70	43.9 43.9 41.7 41.1 39.2 38.9 42.4 42.0	397.1 397.1 390.3 390.3 381.8 352.1 368.6 369.0	5001
18S/27E-20D01 M	447.0	10-24-69 11-26-69 12-24-69 1-22-70 2-26-70 3-25-70 4-23-70 5-27-70	15.8 15.0 15.3 15.3 14.2 12.0 NM-1 NM-1	431.2 432.0 431.7 431.5 432.5 435.0	5001
19S/26E-14E01 M	375.0	10-24-69 11-26-69 12-24-69 1-22-70 2-26-70 3-24-70 4-23-70 5-27-70	67.7 66.5 65.7 65.7 65.7 62.0 66.7 NM-1	307.3 308.5 309.3 309.3 311.6 313.0 308.3	5001
19S/26E-21E01 M	354.0	1-29-70	70.0	299.0	5605
LINDSEY-STRATHMORE IRRIGATION DISTRICT					
			5-22-27		
19S/27E-29D01 M	390.0	1-30-70	47.5	342.5	5606
20S/27E-06B01 M	372.0	10-24-69 11-26-69 12-24-69 1-22-70 2-26-70 3-24-70 4-23-70 5-27-70	45.4 44.6 42.9 44.5 44.6 44.7 48.4 43.1	325.6 327.5 329.1 327.4 327.4 327.3 327.6 328.9	5001
20S/27E-16A01 M	426.0	10-27-69 11-26-69 12-24-69 1-21-70 2-26-70 3-24-70 4-23-70	22.9 22.8 23.0 22.8 22.9 22.0 21.3	403.1 403.2 403.0 403.2 403.1 404.0 400.0	5001
20S/27E-21P01 M	414.0	1-10-70	32.3	381.7	5606
20S/27E-29J01 M	400.0	1-10-70	28.9	379.2	5606
21S/27E-01A01 M	450.0	10-21-69 11-20-69 12-24-69 1-21-70 2-20-70 3-24-70 4-22-70 5-20-70	20.0 19.6 16.0 15.7 14.2 14.1 16.3 20.8	440.0 440.5 444.5 444.8 444.9 444.7 443.7 439.2	5001
LINDSEY IRRIGATION DISTRICT					
			5-22-28		
20S/26E-01P01 M	360.0	10-24-69 11-26-69	72.2 67.4	297.8 292.5	5001

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
LINDMORE IRRIGATION DISTRICT						LOWER TULE RIVER IRRIGATION DISTRICT					
5-22-28						5-22-30					
20S/26E-01P01 M (Cont.)	360.0	12-24-69 68.0 1-21-70 66.9 2-26-70 63.6 3-24-70 NM-1 4-23-70 80.0 5-27-70 NM-1		292.0 293.1 296.4 280.0	5001	21S/24E-31D01 M (Cont.)	230.0	3-26-70 66.5 4-30-70 65.9 5-23-70 65.4	153.5 164.0 164.6	5001	
20S/26E-22C02 M	342.0	1-27-70 92.3		249.7	5607	21S/24E-35M01 M	251.0	10-02-69 85.5 10-28-69 84.1 11-26-69 81.9 12-30-69 80.5 1-22-70 79.2 2-27-70 77.7 3-26-70 77.4 4-30-70 75.1 5-28-70 78.6	165.5 166.9 169.1 170.5 171.8 173.3 173.1 172.9 172.4	5001	
20S/26E-24K01 M	362.5	10-23-69 61.7 11-25-69 61.3 12-23-69 60.3 1-21-70 54.7 2-25-70 59.1 3-24-70 58.2 4-22-70 59.9 5-26-70 60.1		300.8 301.2 302.2 302.8 303.4 304.3 302.6 302.4	5001	21S/25E-03H01 M	285.0	10-09-69 78.2 2-05-70 57.0	206.8 228.0	5001 5609	
20S/26E-32A01 M	331.5	10-23-69 93.0 11-25-69 89.4 12-23-69 86.7 1-21-70 85.0 2-25-70 89.2 3-24-70 NM-1 4-22-70 96.2 5-26-70 90.7		235.5 241.6 244.8 246.5 242.3 235.3 240.8	5001	21S/26E-06G02 M	322.0	10-03-69 67.2 10-28-69 60.3 12-02-69 55.9 12-30-69 55.1 1-22-70 53.5 3-04-70 54.2 4-02-70 52.7 5-05-70 52.5 5-29-70 79.4	254.8 261.7 266.1 266.9 268.5 267.8 269.3 269.5 242.6	5001	
20S/27E-24E01 M	392.0	10-23-69 30.1 11-26-69 29.6 12-24-69 27.7 1-21-70 30.0 2-26-70 NM-7 3-24-70 29.8 4-22-70 30.0 5-26-70 NM-7		361.9 362.4 364.3 362.0 363.2 362.0	5001	21S/26E-10E01 M	350.0	10-02-69 47.6 10-28-69 45.2 11-26-69 40.7 12-30-69 35.3 1-22-70 34.2 3-04-70 32.6 4-02-70 34.9 5-06-70 34.5 5-28-70 34.8	302.4 304.8 309.3 314.7 315.8 317.4 315.1 315.7 315.2	5001	
PORTERVILLE IRRIGATION DISTRICT						5-22-29					
21S/26E-12A01 M	372.0	10-24-69 39.7 11-25-69 37.7 12-28-69 35.0 1-29-70 34.2 2-26-70 33.0 3-27-70 32.7 4-27-70 34.3 5-29-70 32.6		332.3 334.3 337.0 337.8 339.0 339.3 340.3 336.4	5608	22S/24E-09A01 M	245.0	10-02-69 112.5 10-28-69 113.0 11-26-69 112.0 12-30-69 111.1 1-22-70 110.6 2-27-70 109.4 4-02-70 109.0 4-30-70 108.8 5-28-70 108.7	132.5 132.0 133.0 133.9 134.4 135.6 136.0 136.2 136.3	5001	
21S/27E-21C01 M	409.0	10-23-69 15.5 11-25-69 13.7 12-23-69 12.7 1-21-70 12.8 2-25-70 11.0 3-24-70 10.7 4-22-70 12.5 5-26-70 12.8		393.5 395.3 396.3 396.2 398.0 398.3 396.5 396.2	5001	22S/24E-15A01 M	251.5	10-08-69 141.5 2-03-70 129.6	110.0 121.9	5001 5609	
21S/27E-28E01 M	420.0	10-24-69 11.5 11-25-69 12.4 12-28-69 11.7 1-29-70 11.0 2-26-70 10.5 3-27-70 10.7 4-27-70 13.0 6-01-70 14.5		408.5 409.6 408.3 409.0 409.5 409.3 407.0 405.5	5001	22S/25E-10E01 M	296.0	10-02-69 98.0 10-28-69 93.5 11-26-69 93.1 12-30-69 93.6 1-22-70 93.1 2-27-70 93.0 3-30-70 92.3 4-30-70 93.7 5-28-70 93.3	198.0 202.5 202.9 202.4 202.9 203.0 203.7 202.3 202.7	5001	
22S/26E-01J01 M	395.0	10-22-69 77.8 11-25-69 74.3 12-28-69 73.7 1-29-70 69.7 2-26-70 69.8 3-27-70 72.5 4-27-70 73.2 5-29-70 73.9		317.2 320.7 321.3 325.3 325.2 322.5 321.8 321.1	5001	22S/25E-15A01 M	303.0	10-14-69 127.7 2-06-70 123.7	175.3 179.3	5001 5609	
22S/27E-06D01 M	397.0	10-22-69 52.1 11-25-69 50.3 12-23-69 48.7 1-29-70 48.7 2-26-70 48.2 3-27-70 48.9 4-27-70 50.5 5-29-70 52.2		344.9 346.7 348.3 348.3 348.8 348.1 346.5 344.8	5608	22S/26E-06A01 M	337.0	1-29-70 105.5	231.5	5611	
VANDALIA IRRIGATION DISTRICT						5-22-31					
22S/28E-07Q01 M	524.0	10-23-69 NM-1 11-25-69 149.1 12-23-69 137.0 1-21-70 125.0 2-25-70 122.9 3-24-70 119.7 4-22-70 NM-1 5-26-70 NM-1		374.9 387.0 394.0 401.1 404.5	5001	22S/28E-17N01 M	577.0	10-23-69 162.5 11-25-69 159.5 12-23-69 155.7 1-21-70 144.5 2-25-70 125.5 3-24-70 130.5 4-22-70 132.0 5-26-70 140.7	414.5 417.5 421.3 432.5 451.5 446.5 445.0 436.3	5001	
22S/28E-18A01 M	535.0	10-23-69 147.5 11-25-69 127.2 12-23-69 127.0 1-21-70 111.0 2-25-70 106.2 3-24-70 114.0 4-22-70 115.2 5-26-70 125.3		387.5 407.8 408.0 402.0 426.8 421.0 419.8 409.7	5001	SAUCELO IRRIGATION DISTRICT					
5-22-32						5-22-32					
21S/23E-22J01 M	221.5	10-07-69 8.0 2-12-70 69.8		143.5 151.7	5001 5603	22S/26E-15J01 M	371.0	10-23-69 126.6 11-25-69 122.6 12-23-69 120.0 1-21-70 120.0 2-25-70 120.4 3-24-70 NM-1 4-22-70 NM-1 5-26-70 NM-1	284.4 284.4 251.0 251.0 250.5	5001	
21S/24E-15H01 M	253.0	2-05-70 41.0		212.0	5609	23S/26E-02R01 M	397.0	1-30-70 144.5	252.5	5611	
21S/24E-31D01 M	230.0	10-07-69 72.4 10-28-69 71.6 11-26-69 70.3 12-30-69 69.4 1-22-70 69.9 2-27-70 67.9		157.6 158.4 159.7 160.1 160.1 162.1	5001						

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

**TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS**

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
NORTH KERN WATER STORAGE DISTRICT 5-22-37						KERN RIVER DELTA AREA 5-22-40					
26S/25E-15P01 M (Cont.)	346.7	4-20-70 5-25-70	244.0 228.0	102.7 119.7	5000	30S/28E-34R02 M	359.0	10-21-69 11-25-69 12-23-69 1-27-70 2-25-70 3-23-70 4-21-70 5-26-70	96.4 96.4 97.2 95.2 96.9 97.3 100.2 99.2	262.6 262.6 261.8 263.8 263.2 261.7 258.8 259.8	5000
26S/25E-15R01 M	352.3	10-00-69	NM-7		5050	31S/26E-35D01 M	294.5	1-20-70	47.2	247.3	5121
26S/26E-30P01 M	392.0	10-00-69	NM-7		5050	31S/27E-04L01 M	341.1	1-20-70	124.6	216.5	5050
27S/25E-01N03 M	394.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	265.0 252.6 246.8 243.2 241.5 252.2 255.6 265.4	129.0 141.4 147.2 150.8 150.5 141.8 138.4 128.6	5000	31S/27E-28J01 M	312.1	1-27-70 9-15-70	78.5 72.5	233.6 239.6	5121
27S/26E-06H02 M	416.0	10-00-69	NM-6		5001	31S/28E-30M01 M	314.7	1-20-70	66.0	248.7	5050
27S/26E-20E01 M	435.7	10-00-69	NM-7		5050	32S/26E-36D01 M	378.0	10-00-69	NM-0		5121
27S/27E-30H02 M	525.0	1-28-70	423.0	102.0	5001	32S/27E-18E01 M	292.6	10-00-69	NM-1		5050
28S/25E-13L01 M	361.1	10-00-69	NM-7		5050	32S/28E-04P01 M	301.0	1-26-70 9-21-70	42.2 60.2	258.8 240.8	5001
28S/26E-21H03 M	388.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	239.7 228.7 224.0 225.2 226.4 238.3 231.2 268.6	148.3 159.3 164.0 162.8 161.6 149.7 136.8 119.4	5000	EDISON-MARICOPA AREA 5-22-41					
SHAPTER-WASCO IRRIGATION DISTRICT 5-22-38						29S/29E-33M01 M	578.0	2-06-70	447.9	130.1	5644
27S/24E-01L02 M	322.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	238.0 219.0 209.2 211.0 214.0 235.7 232.2 268.6	84.0 105.0 112.8 111.0 108.0 86.3 67.8 51.8	5000	30S/28E-02R01 M	410.0	1-27-70 9-22-70	225.5 221.6	184.5 188.4	5001
27S/24E-35D01 M	316.0	10-00-70	243.7	72.3	5050	30S/28E-10N01 M	372.0	10-21-69 11-25-69 12-23-69 1-27-70 2-25-70 3-23-70 4-21-70 5-26-70	48.4 48.1 49.2 47.4 48.1 47.9 48.6 40.0	323.6 323.9 322.8 324.6 323.9 324.1 323.4 323.0	5000
27S/25E-28A01 M	375.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	233.5 222.4 232.6 227.0 232.5 232.5 233.6 236.8	141.5 152.6 140.4 148.0 142.5 141.4 138.2	5000	30S/28E-10N04 M	372.0	10-21-69 11-25-69 12-23-69 1-27-70 2-25-70 3-23-70 4-21-70 5-26-70	183.9 181.0 178.6 177.8 177.0 180.8 184.8 183.5	188.1 191.0 193.4 194.2 195.0 191.2 197.2 198.5	5000
28S/25E-16P01 M	329.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	196.2 193.3 191.5 190.7 191.5 198.9 198.8 198.8	132.8 135.7 137.5 138.3 137.5 130.1 130.2 130.2	5000	30S/29E-26A01 M	628.0	2-12-70	467.4	160.6	5644
29S/25E-11M03 M	330.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	167.8 164.4 163.0 161.9 161.3 161.5 168.2 166.5	162.2 165.6 167.0 168.1 168.7 166.5 161.8 163.5	5000	30S/30E-20R01 M	791.5	10-00-69	NM-7		5644
29S/27E-33D01 M	380.0	10-20-69 11-25-69 12-22-69 1-26-70 2-24-70 3-23-70 4-21-70 5-25-70	54.4 50.5 52.2 52.2 52.2 54.9 57.2 65.2	325.6 325.5 327.8 327.8 327.8 325.1 322.8 314.8	5000	31S/29E-09A01 M	468.0	2-17-70	348.5	119.5	5644
30S/25E-17E01 M	299.6	10-03-69 11-05-69 12-03-69 12-30-69 2-05-70 3-04-70 4-04-70 5-03-70 6-03-70	73.1 70.1 56.4 56.6 58.3 54.6 65.5 NM-2 NM-2	226.5 229.5 243.2 243.0 241.3 245.0 234.1	5640	31S/29E-29A01 M	400.0	1-26-70 9-21-70	151.2 161.7	248.8 239.3	5001
30S/26E-22P02 M	338.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	80.2 73.1 76.6 77.4 79.4 78.6 79.7 77.9	257.8 264.9 261.4 260.6 258.6 259.4 258.3 260.1	5000	31S/30E-21G01 M	536.0	2-19-70	357.7	178.3	5644
30S/28E-32B01 M	254.4	9-22-70	109.0	244.0	5001	32S/25E-35R02 M	442.5	1-20-70 9-16-70	153.0 229.0	284.5 213.5	5121
						32S/28E-23R01 M	386.7	1-26-70	272.0	114.7	5644
						32S/29E-19H02 M	416.0	10-21-69 11-25-69 12-23-69 1-27-70 2-25-70 3-24-70 4-21-70 5-26-70	203.3 205.1 202.1 202.2 202.3 204.3 202.5 200.2	212.7 210.9 211.7 213.8 213.7 211.2 213.5 215.8	5000
						32S/29E-19H03 M	416.0	10-21-69 11-25-69 12-23-69 1-27-70 2-25-70 3-24-70 4-21-70 5-26-70	316.6 301.4 301.2 301.3 309.3 321.1 348.0 340.0	99.4 114.6 114.8 114.7 106.7 94.0 68.0 76.0	5000
						11N/18W-18H01 S	726.0	2-02-70	509.0	217.0	5644
						11N/19W-04H01 S	576.0	2-03-70	432.9	143.1	5644
						11N/19W-07R03 S	673.0	10-21-69 11-25-69 12-23-69 1-27-70 2-25-70 3-24-70 4-21-70 5-26-70	509.3 504.1 506.4 506.0 504.5 509.6 510.6 509.6	163.7 168.9 166.6 167.0 167.5 163.4 162.4 163.4	5000
						11N/20W-07Q01 S	452.3	10-00-69	NM-3		5050
						11N/20W-24A01 S	730.3	10-03-69	581.7	148.6	5050
						11N/21W-05M01 S	515.9	10-03-69	499.1	16.8	5050
						11N/22W-04H01 S	529.0	10-00-69	NM-7		5050
						12N/21W-29N01 S	423.3	10-00-69	NM-0		5121
						12N/23W-28P01 S	498.0	10-00-69	NM-0		5121

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	WELL TYPE	WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE ELEVATION IN FEET	WATER SURFACE ELEVATION IN FEET	WELL TYPE
HUP N' VISTA WATER STORAGE DISTRICT 5-22-42						SEMITROPIC WATER STORAGE DISTRICT 5-22-43					
27S/22E-21P01 M	240.0	1-23-70 9-23-70	13.0 14.0	227.0 226.0	5121	25S/24E-15H01 M (Cont.)	248.0	4-20-70 5-25-70	83.0 83.3	165.0 154.7	5000
27S/22E-12H01 M	241.0	10-21-69 11-25-69 12-21-69 1-27-70 2-25-70 3-24-70 4-21-70 5-26-70	131.1 133.1 129.1 125.2 125.4 124.3 129.6 132.7	109.9 107.9 115.9 115.8 115.6 116.2 112.4 104.3	5000	25S/24E-30H01 M	238.0	1-26-70 9-21-70	105.6 273.4	42.4 -35.4	5001
28S/22E-09D01 M	240.0	10-21-69 11-25-69 12-21-69 1-27-70 2-25-70 3-24-70 4-21-70 5-26-70	8.0 8.0 7.8 9.0 4.5 9.0 8.8 9.2	212.0 210.0 212.2 211.0 230.5 211.0 211.2 230.8	5000	26S/21E-14E01 M	244.0	10-21-69 11-25-69 12-21-69 1-27-70 2-25-70 4-21-70 5-26-70	12.2 11.2 12.1 12.2 12.1 12.8 13.8	211.8 212.8 211.8 211.8 211.4 211.2 210.2	5000
28S/22E-10D02 M	245.0	10-00-69	NM-0		5121	26S/21E-14J01 M	237.0	1-29-70	27.0	210.0	5121
28S/23E-11H01 M	257.8	10-02-69 2-03-70	18.4 36.5	230.4 221.3	5640	26S/22F-10002 M	224.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	73.4 69.6 66.0 60.3 60.2 67.6 62.2 65.3	161.6 155.4 160.0 164.7 165.8 167.4 162.5 164.7	5000
24S/23E-03A01 M	260.3	3-02-70	24.0	215.3	5050	26S/22E-35E01 M	253.0	10-00-69	NM-0		5121
29S/23E-25J31 M	275.0	10-07-69 11-05-69 12-01-69 1-08-70 1-09-70	111.1 59.6 49.6 62.0 NM-0	213.9 215.4 215.5 213.0	5050	26S/23E-02H01 M	234.3	10-00-69	NM-0		5121
29S/23E-27H01 M	270.0	10-21-69 11-25-69 12-21-69 1-27-70 2-25-70 3-24-70 4-21-70 5-26-70	31.0 30.8 33.5 32.7 30.5 36.2 35.1 36.8	219.0 234.2 236.4 237.3 233.5 234.8 211.4 233.2	5000	26S/24E-23H01 M	245.5	9-23-70	NM-1		5050
30S/23E-01D01 M	276.8	10-03-69 2-06-70	50.9 53.2	225.9 223.6	5640	27S/23E-01H01 M	267.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	97.4 96.7 98.1 95.6 96.1 97.6 98.2	169.6 170.3 170.9 171.4 170.9	5000
30S/24E-02C01 M	290.0	10-02-69 2-05-70	85.3 90.8	204.7 199.2	5640	27S/23E-01R04 M	267.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	233.2 212.0 210.3 213.2 218.5 NM-7 248.4 249.0	33.8 55.0 56.7 63.8 48.5 18.6 18.0	5000
30S/24E-04C01 M	282.0	10-21-69 11-25-69 12-21-69 1-27-70 2-25-70 3-24-70 4-21-70 5-26-70	61.8 62.6 69.6 66.5 70.2 73.7 82.0 72.7	218.2 219.4 212.4 216.5 202.8 201.3 200.0 200.3	5000	27S/23E-01R05 M	267.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	230.8 210.7 204.4 212.0 210.4 NM-7 248.4 249.0	36.2 46.3 57.6 46.2 47.6 19.6 22.6	5000
31S/25E-27P01 M	283.0	10-21-69 11-25-69 12-21-69 1-27-70 2-25-70 3-24-70 4-21-70 5-26-70	NM-7 19.2 18.4 18.2 18.4 18.2 22.2 30.4	261.8 264.6 264.8 264.6 264.8 260.4 262.6	4000	27S/23E-01L01 M	268.0	1-23-70 4-21-70	13.0 10.5	225.0 227.4	5121
SEMITROPIC WATER STORAGE DISTRICT 5-22-43						28S/23E-11E01 M	245.0	10-02-69 12-01-69 12-10-69 2-25-70 3-23-70 4-20-70 5-25-70	37.4 36.5 36.1 33.5 37.7 35.0 34.1	217.6 218.4 219.9 221.4 217.3 220.0 219.9	5640
25S/22E-02N02 M	212.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	78.4 78.2 75.3 72.1 64.8 67.1 66.6 67.4	133.8 133.8 136.7 139.6 147.2 144.4 145.1 144.5	5000	28S/23E-11E01 M	245.0	10-02-69 12-01-69 12-10-69 2-25-70 3-23-70 4-20-70 5-25-70	37.4 36.5 36.1 33.5 37.7 35.0 34.1	217.6 218.4 219.9 221.4 217.3 220.0 219.9	5640
25S/22E-14A01 M	215.0	1-27-70 9-22-70	174.5 251.0	40.5 -16.0	5121	28S/23E-11E01 M	245.0	10-02-69 12-01-69 12-10-69 2-25-70 3-23-70 4-20-70 5-25-70	37.4 36.5 36.1 33.5 37.7 35.0 34.1	217.6 218.4 219.9 221.4 217.3 220.0 219.9	5640
25S/23E-28D01 M	217.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	103.1 66.0 67.2 95.6 97.7 95.8 96.2 97.5	113.9 118.3 119.8 121.4 119.3 121.2 120.8 114.5	4000	28S/23E-11E01 M	245.0	10-02-69 12-01-69 12-10-69 2-25-70 3-23-70 4-20-70 5-25-70	37.4 36.5 36.1 33.5 37.7 35.0 34.1	217.6 218.4 219.9 221.4 217.3 220.0 219.9	5640
25S/23E-28D03 M	217.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	213.2 204.2 184.4 192.2 185.9 180.0 198.5 213.3	10.2 12.8 32.7 34.4 31.1 32.0 13.4 3.7	4000	28S/23E-11E01 M	245.0	10-02-69 12-01-69 12-10-69 2-25-70 3-23-70 4-20-70 5-25-70	37.4 36.5 36.1 33.5 37.7 35.0 34.1	217.6 218.4 219.9 221.4 217.3 220.0 219.9	5640
25S/24E-10K01 M	240.0	1-26-70 9-21-70	68.0 58.7	189.0 181.3	4001	28S/23E-11E01 M	245.0	10-02-69 12-01-69 12-10-69 2-25-70 3-23-70 4-20-70 5-25-70	37.4 36.5 36.1 33.5 37.7 35.0 34.1	217.6 218.4 219.9 221.4 217.3 220.0 219.9	5640
25S/24E-15H01 M	243.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70	84.1 82.4 82.2 82.4 82.4 82.5	163.9 165.6 165.4 165.6 165.6 165.5	4000	28S/23E-11E01 M	245.0	10-02-69 12-01-69 12-10-69 2-25-70 3-23-70 4-20-70 5-25-70	37.4 36.5 36.1 33.5 37.7 35.0 34.1	217.6 218.4 219.9 221.4 217.3 220.0 219.9	5640
SEMITROPIC WATER STORAGE DISTRICT 5-22-43						28S/23E-11E01 M	245.0	10-02-69 12-01-69 12-10-69 2-25-70 3-23-70 4-20-70 5-25-70	37.4 36.5 36.1 33.5 37.7 35.0 34.1	217.6 218.4 219.9 221.4 217.3 220.0 219.9	5640
25S/22E-02N02 M	212.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	78.4 78.2 75.3 72.1 64.8 67.1 66.6 67.4	133.8 133.8 136.7 139.6 147.2 144.4 145.1 144.5	5000	28S/23E-11E01 M	245.0	10-02-69 12-01-69 12-10-69 2-25-70 3-23-70 4-20-70 5-25-70	37.4 36.5 36.1 33.5 37.7 35.0 34.1	217.6 218.4 219.9 221.4 217.3 220.0 219.9	5640
25S/22E-14A01 M	215.0	1-27-70 9-22-70	174.5 251.0	40.5 -16.0	5121	28S/23E-11E01 M	245.0	10-02-69 12-01-69 12-10-69 2-25-70 3-23-70 4-20-70 5-25-70	37.4 36.5 36.1 33.5 37.7 35.0 34.1	217.6 218.4 219.9 221.4 217.3 220.0 219.9	5640
25S/23E-28D01 M	217.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	103.1 66.0 67.2 95.6 97.7 95.8 96.2 97.5	113.9 118.3 119.8 121.4 119.3 121.2 120.8 114.5	4000	28S/23E-11E01 M	245.0	10-02-69 12-01-69 12-10-69 2-25-70 3-23-70 4-20-70 5-25-70	37.4 36.5 36.1 33.5 37.7 35.0 34.1	217.6 218.4 219.9 221.4 217.3 220.0 219.9	5640
25S/23E-28D03 M	217.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	213.2 204.2 184.4 192.2 185.9 180.0 198.5 213.3	10.2 12.8 32.7 34.4 31.1 32.0 13.4 3.7	4000	28S/23E-11E01 M	245.0	10-02-69 12-01-69 12-10-69 2-25-70 3-23-70 4-20-70 5-25-70	37.4 36.5 36.1 33.5 37.7 35.0 34.1	217.6 218.4 219.9 221.4 217.3 220.0 219.9	5640
25S/24E-10K01 M	240.0	1-26-70 9-21-70	68.0 58.7	189.0 181.3	4001	28S/23E-11E01 M	245.0	10-02-69 12-01-69 12-10-69 2-25-70 3-23-70 4-20-70 5-25-70	37.4 36.5 36.1 33.5 37.7 35.0 34.1	217.6 218.4 219.9 221.4 217.3 220.0 219.9	5640
25S/24E-15H01 M	243.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70	84.1 82.4 82.2 82.4 82.4 82.5	163.9 165.6 165.4 165.6 165.6 165.5	4000	28S/23E-11E01 M	245.0	10-02-69 12-01-69 12-10-69 2-25-70 3-23-70 4-20-70 5-25-70	37.4 36.5 36.1 33.5 37.7 35.0 34.1	217.6 218.4 219.9 221.4 217.3 220.0 219.9	5640
SEMITROPIC WATER STORAGE DISTRICT 5-22-43						28S/23E-11E01 M	245.0	10-02-69 12-01-69 12-10-69 2-25-70 3-23-70 4-20-70 5-25-70	37.4 36.5 36.1 33.5 37.7 35.0 34.1	217.6 218.4 219.9 221.4 217.3 220.0 219.9	5640
25S/22E-02N02 M	212.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	78.4 78.2 75.3 72.1 64.8 67.1 66.6 67.4	133.8 133.8 136.7 139.6 147.2 144.4 145.1 144.5	5000	28S/23E-11E01 M	245.0	10-02-69 12-01-69 12-10-69 2-25-70 3-23-70 4-20-70 5-25-70	37.4 36.5 36.1 33.5 37.7 35.0 34.1	217.6 218.4 219.9 221.4 217.3 220.0 219.9	5640
25S/22E-14A01 M	215.0	1-27-70 9-22-70	174.5 251.0	40.5 -16.0	5121	28S/23E-11E01 M	245.0	10-02-69 12-01-69 12-10-69 2-25-70 3-23-70 4-20-70 5-25-70	37.4 36.5 36.1 33.5 37.7 35.0 34.1	217.6 218.4 219.9 221.4 217.3 220.0 219.9	5640
25S/23E-28D01 M	217.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	103.1 66.0 67.2 95.6 97.7 95.8 96.2 97.5	113.9 118.3 119.8 121.4 119.3 121.2 120.8 114.5	4000	28S/23E-11E01 M	245.0	10-02-69 12-01-69 12-10-69 2-25-70 3-23-70 4-20-70 5-25-70	37.4 36.5 36.1 33.5 37.7 35.0 34.1	217.6 218.4 219.9 221.4 217.3 220.0 219.9	5640
25S/23E-28D03 M	217.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	213.2 204.2 184.4 192.2 185.9 180.0 198.5 213.3	10.2 12.8 32.7 34.4 31.1 32.0 13.4 3.7	4000	28S/23E-11E01 M	245.0	10-02-69 12-01-69 12-10-69 2-25-70 3-23-70 4-20-70 5-25-70	37.4 36.5 36.1 33.5 37.7 35.0 34.1	217.6 218.4 219.9 221.4 217.3 220.0 219.9	5640
25S/24E-10K01 M	240.0	1-26-70 9-21-70	68.0 58.7	189.0 181.3	4001	28S/23E-11E01 M	245.0	10-02-69 12-01-69 12-10-69 2-25-70 3-23-70 4-20-70 5-25-70	37.4 36.5 36.1 33.5 37.7 35.0 34.1	217.6 218.4 219.9 221.4 217.3 220.0 219.9	5640
25S/24E-15H01 M	243.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70	84.1 82.4 82.2 82.4 82.4 82.5	163.9 165.6 165.4 165.6 165.6 165.5	4000	28S/23E-11E01 M	245.0	10-02-69 12-01-69 12-10-69 2-25-70 3-23-70 4-20-70 5-25-70	37.4 36.5 36.1 33.5 37.7 35.0 34.1	217.6 218.4 219.9 221.4 217.3 220.0 219.9	5640
SEMITROPIC WATER STORAGE DISTRICT 5-22-43						28S/23E-11E01 M	245.0	10-02-69 12-01-69 12-10-69 2-25-70 3-23-70 4-20-70 5-25-70	37.4 36.5 36.1 33.5 37.7 35.0 34.1	217.6 218.4 219.9 221.4 217.3 220.0 219.9	5640
25S/22E-02N02 M	212.0	10-20-69 11-24-69 12-22-69 1-26-70 2-24-70 3-23-70 4-20-70 5-25-70	78.4 78.2 75.3 72.1 64.8 67.1 66.6 67.4	133.8 133.8 136.7 139.6 147.2 144.4 145.1 144.5	5000	28S/23E-11E01 M	245.0	10-02-69 12-01-69 12-10-69 2-25-70 3-23-70 4-20-70 5-25-70	37.4 36.5 36.1 33.5 37.7 35.0 34.1	217.6 218.4 219.9 221.4 217.3 220.0 219.9	5640
25S/22E-14A01 M	215.0	1-27-70 9-22-70	174.5 251.0								

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO FACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO FACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA		
AVENAL-MCKITTRICK AREA (Cont.)						CORCORAN IRRIGATION DISTRICT							
5-22.44						5-22.46							
26S/17E-13L02 M	910.0	10-00-69	NM-0		5121	21S/22E-27A01 M	146.0	10-02-69	13.3	182.7	5050		
26S/18E-19B02 M	875.0	1-23-70	58.0	817.0	5121			10-31-69	13.2	182.8			
		9-23-70	NM-9					11-28-69	13.4	182.6			
27S/18E-15R01 M	1220.0	10-00-69	NM-0		5121			1-06-70	12.5	183.5			
28S/22E-20W01 M	290.0	10-07-69	61.8	228.2	5050			2-03-70	13.4	182.6			
		11-05-69	61.2	228.8				3-09-70	11.3	184.2			
		12-03-69	61.0	229.0				4-06-70	12.5	183.5			
		1-08-70	62.0	228.0				5-05-70	12.8	183.2			
		1-29-70	61.8	228.2				6-05-70	12.7	183.3			
		3-11-70	63.3	226.7									
		4-07-70	62.3	227.7				22S/22E-01B02 M	201.0	10-02-69	11.7	189.3	5050
		5-12-70	62.0	228.0						10-31-69	11.1	189.9	
		6-11-70	63.3	226.7						11-28-69	10.9	190.1	
										1-06-70	11.0	190.0	
TULARE LAKE-LOST HILLS AREA										2-03-70	10.7	190.3	
5-22.45										3-09-70	10.7	190.3	
22S/19E-18P02 M	255.0	10-06-69	181.5	73.5	5050					4-06-70	10.3	190.7	
		11-04-69	180.0	75.0						5-05-70	10.4	190.6	
		12-02-69	180.0	75.0						6-05-70	10.8	190.2	
		1-07-70	NM-1			22S/22E-10A01 M	192.0	10-02-69	112.4	79.6	5050		
		1-23-70	178.0	77.0					10-31-69	110.6	81.4		
		3-10-70	178.0	77.0					11-28-69	107.8	84.2		
		4-06-70	180.0	75.0					1-06-70	103.2	88.8		
		5-11-70	181.0	74.0					2-03-70	99.7	92.3		
		6-09-70	187.0	68.0					3-09-70	97.6	94.4		
23S/19E-14R01 M	235.0	10-06-69	41.2	193.8	5050				4-06-70	93.1	98.9		
		11-04-69	40.2	194.8					5-05-70	92.6	99.4		
		12-02-69	39.3	195.7					6-05-70	94.2	97.8		
		1-07-70	39.2	195.8		22S/22E-13P01 M	193.0	10-02-69	11.0	182.0	5050		
		1-28-70	39.2	195.8					10-31-69	10.8	182.2		
		3-10-70	39.2	195.8					11-28-69	9.6	183.4		
		4-06-70	39.1	195.9					1-06-70	9.2	183.8		
		5-11-70	39.3	195.7					2-03-70	9.1	183.9		
		6-09-70	39.2	195.8					3-09-70	8.5	184.2		
24S/20E-21N02 M	233.0	10-06-69	28.5	204.5	5050				4-06-70	8.5	184.5		
		11-04-69	28.3	204.7					5-05-70	8.7	184.3		
		12-02-69	28.1	204.9					6-05-70	9.1	183.0		
		1-07-70	28.4	204.6		22S/22E-15C01 M	191.0	10-02-69	111.0	80.0	5050		
		1-28-70	28.5	204.5					10-31-69	109.7	81.3		
		3-10-70	28.5	204.5					11-28-69	105.3	85.7		
		4-06-70	28.4	204.6					1-06-70	101.3	89.7		
		5-13-70	28.5	204.5					2-03-70	98.4	92.6		
		6-11-70	28.5	204.5					3-09-70	94.5	96.5		
24S/22E-28A02 M	207.0	10-02-69	227.5	-20.5	5050				4-06-70	91.9	96.1		
		10-31-69	228.0	-17.0					5-05-70	91.0	100.0		
		11-28-69	197.0	10.0					6-05-70	92.0	98.0		
		1-06-70	169.0	38.0		22S/22E-22H01 M	191.0	10-02-69	108.5	82.5	5050		
		2-03-70	159.0	48.0					10-31-69	114.0	77.0		
		3-09-70	NM-9						11-28-69	113.5	77.5		
		4-06-70	199.5	7.5					1-06-70	105.0	86.0		
		5-05-70	181.7	25.1					2-03-70	NM-3			
		6-05-70	198.0	9.0					3-09-70	102.0	89.0		
24S/22E-35R01 M	213.0	10-02-69	NM-1		5050				4-06-70	NM-3			
		10-31-69	243.0	-30.0					5-05-70	94.5	96.5		
		11-28-69	214.0	-6.0					6-05-70	97.0	94.0		
MENDOTA-HURON AREA						5-22.47							
13S/12E-22N01 M	280.0	10-09-69	143.7	136.3	5001	14S/12E-12H01 M	338.0	10-22-69	514.6	-176.5	5000		
		3-11-70	136.1	143.4				11-20-69	522.9	-184.9			
								12-18-69	513.2	-175.2			
								1-16-70	514.2	-176.2			
								2-11-70	509.2	-171.2			
								3-11-70	506.2	-168.2			
								4-09-70	506.2	-168.2			
								5-08-70	511.8	-173.8			
14S/13E-15W01 M	321.0	12-00-69	NM-7		5050	14S/14E-28R02 M	248.0	10-00-69	NM-0		5000		
14S/14E-28R02 M	248.0	10-00-69	NM-0			14S/15E-18E02 M	178.0	12-09-69	213.0	-35.0	5050		
14S/15E-18E02 M	178.0	2-11-70	217.4	-39.4	5621			2-11-70	217.4	-39.4	5621		
14S/15E-35N01 M	161.0	10-00-69	NM-0		5621	14S/15E-11D02 M	345.0	10-22-69	544.2	-199.2	5000		
15S/13E-11D02 M	345.0	10-22-69	544.2	-199.2				11-20-69	537.5	-192.5			
								12-18-69	545.7	-200.7			
								1-15-70	531.2	-186.8			
								2-11-70	524.6	-179.6			
								3-11-70	526.3	-181.3			
								4-08-70	541.9	-196.9			
								5-08-70	543.3	-189.3			
CORCORAN IRRIGATION DISTRICT						5-22.46							
20S/22E-35R01 M	216.0	10-02-69	30.7	185.3	5050	15S/14E-15E04 M	236.0	10-22-69	379.3	-143.3	5000		
		10-31-69	27.9	188.1				11-26-69	359.4	-123.4			
		11-28-69	25.3	190.2				12-24-69	362.6	-126.6			
		1-06-70	25.4	190.6				1-28-70	360.1	-129.1			
		2-03-70	28.0	188.0				2-26-70	362.3	-126.3			
		3-09-70	25.2	190.8				3-25-70	356.5	-119.5			
		4-06-70	24.9	191.1				4-22-70	348.6	-122.6			
		5-05-70	25.0	191.1				5-27-70	364.0	-128.0			
		6-05-70	27.9	188.1		15S/15E-22Q01 M	176.0	2-04-70	105.9	70.1	5001		
						15S/16E-17L01 M	165.0	10-22-69	44.1	120.9	5000		
								11-26-69	43.7	121.3			
								12-24-69	43.7	121.3			

TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS

WELL NUMBER	WELL DEPTH (FEET)	DATE	WELL TYPE	WELL STATUS	WELL DEPTH (FEET)	WELL TYPE	WELL STATUS
MENDOTA-HITON AREA							
15S/16F-17L01	165.0	1-29-70	47.4	121.0	1-29-70	47.4	121.0
(Cont.)		2-26-70	44.0	121.0	2-26-70	44.0	121.0
		3-25-70	44.2	121.0	3-25-70	44.2	121.0
		4-22-70	45.7	121.3	4-22-70	45.7	121.3
		5-27-70	43.0	121.4	5-27-70	43.0	121.4
15S/16E-20R01	170.0	10-00-69	NW-0	4000	10-00-69	NW-0	4000
15S/16E-20A04	169.0	10-22-69	177.0	49.2	4000	10-22-69	177.0
		11-26-69	175.0	49.3	4000	11-26-69	175.0
		12-24-69	172.7	49.7	4000	12-24-69	172.7
		1-29-70	171.0	49.8	4000	1-29-70	171.0
		2-26-70	171.6	49.8	4000	2-26-70	171.6
		3-25-70	171.0	49.0	4000	3-25-70	171.0
		4-22-70	170.6	49.6	4000	4-22-70	170.6
		5-27-70	170.8	49.8	4000	5-27-70	170.8
16S/16E-20N02	226.0	2-03-70	96.0	131.0	50.1	2-03-70	96.0
16S/16E-20N04	334.0	10-22-69	540.4	212.4	4000	10-22-69	540.4
		11-19-69	540.3	212.3	4000	11-19-69	540.3
		12-17-69	540.3	212.3	4000	12-17-69	540.3
		1-15-70	550.2	215.2	4000	1-15-70	550.2
		2-11-70	550.0	216.0	4000	2-11-70	550.0
		3-11-70	531.6	217.6	4000	3-11-70	531.6
		4-04-70	541.7	217.7	4000	4-04-70	541.7
		5-09-70	540.4	216.4	4000	5-09-70	540.4
16S/16E-16N01	187.0	10-01-69	128.9	50.2	4001	10-01-69	128.9
17S/14E-13R01	457.0	12-15-69	772.0	415.0	4050	12-15-69	772.0
17S/16E-24R01	232.5	10-22-69	180.3	50.2	4000	10-22-69	180.3
17S/16E-30A03	290.0	10-22-69	255.9	224.1	4000	10-22-69	255.9
		11-26-69	255.9	224.3	4000	11-26-69	255.9
		12-24-69	255.6	224.4	4000	12-24-69	255.6
		1-29-70	255.7	224.3	4000	1-29-70	255.7
		2-26-70	255.8	224.2	4000	2-26-70	255.8
		3-25-70	255.8	224.2	4000	3-25-70	255.8
		4-22-70	255.8	224.2	4000	4-22-70	255.8
		5-27-70	255.9	224.1	4000	5-27-70	255.9
17S/16E-30A06	302.0	10-22-69	488.4	186.4	4000	10-22-69	488.4
		11-26-69	482.6	186.6	4000	11-26-69	482.6
		12-24-69	479.0	177.7	4000	12-24-69	479.0
		1-29-70	474.7	177.7	4000	1-29-70	474.7
		2-26-70	474.6	177.6	4000	2-26-70	474.6
		3-25-70	472.7	177.7	4000	3-25-70	472.7
		4-22-70	477.2	177.2	4000	4-22-70	477.2
		5-27-70	485.0	185.3	4000	5-27-70	485.0
17S/17E-20N01	228.0	12-00-69	NW-7	4050	12-00-69	NW-7	4050
17S/17E-12N01	253.0	12-00-69	NW-7	5050	12-00-69	NW-7	5050
19S/16E-15N01	174.0	12-11-69	356.0	40.0	4040	12-11-69	356.0
20S/17E-32P01	447.0	12-00-69	NW-7	4050	12-00-69	NW-7	4050
20S/18E-06D01	317.9	10-21-69	526.6	207.7	4000	10-21-69	526.6
		11-18-69	509.3	211.4	4000	11-18-69	509.3
		12-17-69	502.6	214.7	4000	12-17-69	502.6
		1-13-70	521.1	214.4	4000	1-13-70	521.1
		2-11-70	520.1	210.2	4000	2-11-70	520.1
		3-10-70	541.0	221.7	4000	3-10-70	541.0
		4-07-70	536.3	216.4	4000	4-07-70	536.3
		5-06-70	536.7	215.8	4000	5-06-70	536.7
20S/13E-11N01	277.0	12-10-69	445.0	167.1	4050	12-10-69	445.0
20S/15E-11L01	270.0	10-21-69	479.3	204.6	4000	10-21-69	479.3
		11-18-69	473.5	204.6	4000	11-18-69	473.5
		12-17-69	439.3	194.3	4000	12-17-69	439.3
		1-13-70	455.1	196.1	4000	1-13-70	455.1
		2-11-70	444.3	198.3	4000	2-11-70	444.3
		3-10-70	432.0	162.0	4000	3-10-70	432.0
		4-07-70	453.2	183.2	4000	4-07-70	453.2
		5-06-70	439.9	164.3	4000	5-06-70	439.9
20S/16E-30D01	260.0	10-21-69	302.1	42.1	4000	10-21-69	302.1
21S/17E-22P01	577.0	12-00-69	NW-7	4050	12-00-69	NW-7	4050
21S/18E-25W02	463.0	10-21-69	347.4	14.6	4000	10-21-69	347.4
POGO SOIL CONSERVATION DISTRICT							
10S/13E-06R01	110.0	10-02-69	7.4	102.6	4529	10-02-69	7.4
		11-05-69	8.3	101.7	4529	11-05-69	8.3
		12-03-69	8.3	101.7	4529	12-03-69	8.3
		1-03-70	9.1	101.9	4529	1-03-70	9.1
		2-04-70	9.1	101.9	4529	2-04-70	9.1
		3-02-70	9.4	101.2	4529	3-02-70	9.4
		4-06-70	7.4	102.2	4529	4-06-70	7.4
		5-06-70	12.7	97.4	4529	5-06-70	12.7
		6-01-70	13.3	96.7	4529	6-01-70	13.3
11S/13E-05L01	117.0	10-02-69	3.9	107.1	4529	10-02-69	3.9
		11-05-69	10.6	106.4	4529	11-05-69	10.6
		12-03-69	10.8	106.2	4529	12-03-69	10.8
		1-03-70	10.7	106.3	4529	1-03-70	10.7
		2-04-70	10.4	106.1	4529	2-04-70	10.4
		3-02-70	10.7	106.3	4529	3-02-70	10.7
		4-06-70	11.4	106.6	4529	4-06-70	11.4
		5-06-70	11.9	106.1	4529	5-06-70	11.9
		6-01-70	11.9	106.1	4529	6-01-70	11.9
11S/13E-26A01	128.0	10-02-69	8.8	114.2	4529	10-02-69	8.8
		11-05-69	8.8	114.4	4529	11-05-69	8.8
POGO SOIL CONSERVATION DISTRICT							
11S/13E-26A01	129.0	10-02-69	8.8	114.4	4529	10-02-69	8.8
(Cont.)		1-01-70	8.6	114.4	4529	1-01-70	8.6
		2-04-70	8.7	114.3	4529	2-04-70	8.7
		3-02-70	7.7	120.3	4529	3-02-70	7.7
		4-06-70	7.1	120.6	4529	4-06-70	7.1
		5-06-70	11.8	115.2	4529	5-06-70	11.8
		6-01-70	12.7	115.3	4529	6-01-70	12.7
11S/13E-33L01	129.0	10-02-69	8.1	117.9	4529	10-02-69	8.1
		11-05-69	12.8	113.2	4529	11-05-69	12.8
		12-03-69	8.6	117.4	4529	12-03-69	8.6
		1-01-70	9.4	116.6	4529	1-01-70	9.4
		2-04-70	8.9	117.1	4529	2-04-70	8.9
		3-02-70	8.4	117.6	4529	3-02-70	8.4
		4-06-70	7.4	115.4	4529	4-06-70	7.4
		5-06-70	7.2	115.6	4529	5-06-70	7.2
		6-01-70	9.2	116.4	4529	6-01-70	9.2
12S/13E-13J01	140.0	10-02-69	7.3	132.7	4529	10-02-69	7.3
		11-05-69	8.5	131.4	4529	11-05-69	8.5
		12-03-69	5.6	131.6	4529	12-03-69	5.6
		1-01-70	4.4	131.4	4529	1-01-70	4.4
		2-04-70	7.9	132.2	4529	2-04-70	7.9
		3-02-70	7.0	133.0	4529	3-02-70	7.0
		4-06-70	5.9	134.4	4529	4-06-70	5.9
		5-06-70	6.4	133.6	4529	5-06-70	6.4
		6-01-70	7.9	132.1	4529	6-01-70	7.9
TERRA BELLA IRRIGATION DISTRICT							
22S/27E-24J03	532.0	10-23-69	105.3	425.7	4001	10-23-69	105.3
		11-26-69	90.7	432.3	4001	11-26-69	90.7
		12-23-69	96.4	435.2	4001	12-23-69	96.4
		1-21-70	92.4	435.0	4001	1-21-70	92.4
		2-24-70	97.8	434.2	4001	2-24-70	97.8
		3-24-70	96.8	436.2	4001	3-24-70	96.8
		4-22-70	96.4	436.5	4001	4-22-70	96.4
		5-26-70	106.9	426.1	4001	5-26-70	106.9
23S/27E-01A01	546.0	10-23-69	91.7	424.3	5001	10-23-69	91.7
		11-26-69	91.7	424.2	5001	11-26-69	91.7
		12-23-69	91.6	424.4	5001	12-23-69	91.6
		1-21-70	91.4	424.1	5001	1-21-70	91.4
		2-24-70	92.4	423.6	5001	2-24-70	92.4
		3-24-70	91.3	424.7	5001	3-24-70	91.3
		4-22-70	91.3	424.2	5001	4-22-70	91.3
		5-26-70	92.0	424.3	5001	5-26-70	92.0
23S/27E-24A01	450.0	10-23-69	NW-1	4001	10-23-69	NW-1	4001
		11-26-69	177.2	277.6	4001	11-26-69	177.2
		12-23-69	177.2	282.0	4001	12-23-69	177.2
		1-21-70	161.7	288.3	4001	1-21-70	161.7
		2-24-70	163.1	286.5	4001	2-24-70	163.1
		3-24-70	162.1	287.9	4001	3-24-70	162.1
		4-22-70	173.0	277.0	4001	4-22-70	173.0
		5-26-70	NW-1	277.0	4001	5-26-70	NW-1
MERCADO BOTTOM							
7S/13E-24K01	80.0	10-23-69	7.4	72.6	4049	10-23-69	7.4
		11-07-69	6.6	74.4	4049	11-07-69	6.6
		12-03-69	6.3	74.7	4049	12-03-69	6.3
		1-02-70	4.3	74.7	4049	1-02-70	4.3
		2-01-70	4.0	76.0	4049	2-01-70	4.0
		3-04-70	2.1	77.6	4049	3-04-70	2.1
		4-24-70	6.0	74.1	4049	4-24-70	6.0
		5-06-70	6.1	73.4	4049	5-06-70	6.1
		6-02-70	6.8	73.2	4049	6-02-70	6.8
7S/13E-24K02	80.0	10-07-69	4.2	75.4	5050	10-07-69	4.2
		11-07-69	3.7	76.3	5050	11-07-69	3.7
		12-03-69	3.3	76.7	5050	12-03-69	3.3

**TABLE C-3(Cont.)
GROUND WATER LEVELS AT WELLS**

STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA	STATE WELL NUMBER	GROUND SURFACE ELEVATION IN FEET	DATE	GROUND SURFACE TO WATER SURFACE IN FEET	WATER SURFACE ELEVATION IN FEET	AGENCY SUPPLYING DATA
MERCED BOTTOMS (Cont.)						KINGS COUNTY WATER DISTRICT					
5-22.54						5-22.00					
9S/14E-01B01 M	180.0	10-01-09	103.1	76.9	5050	18S/21E-17N01 M	238.0	3-28-70	7.1	230.9	5129
		11-03-09	75.0	105.0		(Cont.)		4-25-70	9.0	228.0	
		12-01-09	65.0	114.4				5-29-70	10.4	227.6	
		1-05-70	58.8	121.2		18S/22E-21N01 M	258.0	11-01-09	75.5	182.5	5129
		2-02-70	53.2	126.8				11-29-09	74.1	183.9	
		3-05-70	52.8	127.2				1-04-70	72.4	183.1	
		3-06-70	50.0	127.4				2-14-70	74.0	182.0	
		5-04-70	54.0	96.0				2-28-70	80.0	178.0	
		6-03-70	85.7	94.3				3-28-70	77.0	180.4	
9S/14E-01B02 M	180.0				5050			4-25-70	80.5	177.5	
		10-01-09	88.0	91.4				5-29-70	81.3	176.7	
		11-03-09	72.7	107.3		18S/22E-30P01 M	245.0	10-30-69	70.3	168.7	5001
		12-01-09	63.7	116.3				12-03-69	72.5	172.5	
		1-05-70	57.3	122.7				12-29-69	69.2	175.8	
		2-02-70	54.1	125.9				1-08-70	66.8	179.2	
		3-05-70	51.9	128.1				2-27-70	70.7	174.3	
		3-06-70	51.9	128.1				3-30-70	71.5	173.5	
		5-04-70	78.8	101.2				4-30-70	80.4	168.0	
		6-03-70	80.6	99.4				6-03-70	80.6	158.4	
9S/14E-01B03 M	180.0	10-01-09	37.4	142.6	5050	18S/23E-28B01 M	263.0	11-01-09	89.6	173.4	5129
		11-03-09	37.4	142.6				11-29-09	88.9	173.1	
		12-01-09	37.3	142.7				1-04-70	84.3	178.7	
		1-05-70	37.4	142.6				2-14-70	81.9	181.1	
		2-02-70	37.1	142.9				2-28-70	81.1	181.9	
		3-05-70	36.9	143.1				3-28-70	NM-1		
		3-06-70	36.9	143.1				4-25-70	86.7	176.3	
		5-04-70	36.8	143.2				5-29-70	50.1	172.9	
		6-03-70	37.0	143.0		19S/21E-20N01 M	225.0	11-01-09	8.1	216.9	5129
9S/14E-00D01 M	141.0	10-01-09	40.9	100.1	5050			11-29-09	8.2	216.8	
		11-03-09	40.5	100.5				1-04-70	0.9		
		12-01-09	40.7	100.3				2-14-70	7.0	218.0	
		1-05-70	40.7	100.3				2-28-70	7.6	217.4	
		2-02-70	40.0	101.0				3-28-70	9.8	215.2	
		3-05-70	39.5	101.5				4-25-70	0.7	218.3	
		3-06-70	38.3	102.7				5-29-70	7.8	217.2	
		5-04-70	39.1	101.9		19S/22E-04B01 M	245.0	11-01-09	77.1	167.9	5129
		6-03-70	39.7	101.3				11-29-09	75.2	169.8	
GARFIELD WATER DISTRICT								1-04-70	73.9	171.1	
5-22.65								2-14-70	72.0	173.0	
12S/20E-13A01 M	380.0	10-02-09	114.5	273.5	5001			2-28-70	72.7	172.3	
		10-29-09	114.0	274.0				3-28-70	77.1	167.9	
		11-28-09	114.5	273.5				4-25-70	80.8	164.2	
		12-31-09	110.0	278.0				5-29-70	82.8	162.2	
		2-02-70	108.2	279.8		19S/22E-19A01 M	235.0	10-22-69	79.8	155.2	5001
		2-27-70	107.5	280.5				11-24-69	74.7	160.3	
		3-30-70	107.8	280.2				12-28-09	72.4	162.0	
		4-29-70	108.2	279.8				1-20-70	70.2	164.8	
		5-28-70	109.5	278.5				2-24-70	69.2	165.8	
12S/21E-07A02 M	405.5	10-02-09	130.6	274.9	5001			3-23-70	77.0	158.0	
		10-29-09	140.0	264.7				4-21-70	102.0	133.0	
		11-28-09	126.0	279.5				5-25-70	112.9	122.1	
		12-31-09	125.1	280.4		19S/22E-23A01 M	240.0	11-01-09	84.2	155.8	5129
		2-02-70	124.1	281.4				11-29-09	69.0	171.0	
		2-27-70	123.7	281.8				1-04-70	67.5	172.5	
		3-30-70	123.2	282.3				2-14-70	66.6	173.4	
		4-29-70	122.8	282.7				2-28-70	69.0	171.0	
		5-28-70	121.4	284.1				3-23-70	71.0	168.4	
12S/21E-15A03 M	390.5	10-02-09	97.8	292.7	5001			4-25-70	75.4	164.6	
		10-29-09	107.4	283.1				5-29-70	73.8	166.2	
		11-28-09	94.5	296.0		20S/21E-03A01 M	220.0	2-23-70	10.4	209.6	5129
		12-31-09	97.2	293.3				11-01-09	136.0	83.0	5129
		2-02-70	93.5	297.0				11-29-09	133.0	85.4	
		2-27-70	93.0	297.5				1-04-70	132.1	86.9	
		3-30-70	92.7	297.8				2-14-70	128.9	90.1	
		4-29-70	93.1	297.4				2-28-70	120.3	92.7	
		5-28-70	92.8	297.7				3-28-70	124.1	94.5	
KINGS COUNTY WATER DISTRICT								4-29-70	119.0	100.0	
5-22.00								5-29-70	122.6	96.4	
17S/20E-36R02 M	243.0	11-01-09	13.8	229.2	5129	PLEASANT VALLEY					
		11-29-09	13.1	229.9		5-22.09					
		1-04-70	13.1	229.9		20S/15E-32A01 M	675.0	12-17-09	232.0	443.0	5050
		2-14-70	16.4	226.6				4-00-70	NM-7		5050
		2-28-70	16.8	226.2		21S/16E-02N01 M	570.0	12-17-09	248.0	386.0	5050
		3-28-70	16.1	226.9				12-17-09	327.0	355.0	5050
		4-25-70	17.2	225.8		21S/16E-07N01 M	634.0				
		5-29-70	14.8	228.2		21S/16E-35D01 M	682.0				
17S/22E-11P01 M	283.0	11-01-09	16.5	266.5	5129						
		11-29-09	15.7	267.3							
		1-04-70	15.2	267.5							
		2-14-70	14.8	268.2							
		2-28-70	15.0	268.0							
		3-28-70	19.6	263.4							
		4-25-70	18.0	265.0							
		5-29-70	15.6	267.4							
17S/22E-35N01 M	266.0	11-01-09	30.5	235.5	5129						
		11-29-09	28.8	237.2							
		1-04-70	26.9	239.1							
		2-14-70	26.1	239.9							
		2-28-70	25.8	240.2							
		3-28-70	29.5	236.5							
		4-25-70	30.0	236.0							
		5-29-70	31.2	234.8							
18S/21E-17N01 M	238.0	11-01-09	NM-1		5129						
		11-29-09	7.6	230.4							
		1-04-70	7.4	230.6							
		2-14-70	NM-1								
		2-28-70	6.6	231.4							

TABLE -4
GROUND WATER RECHARGE
Amounts Applied in Acre-Feet

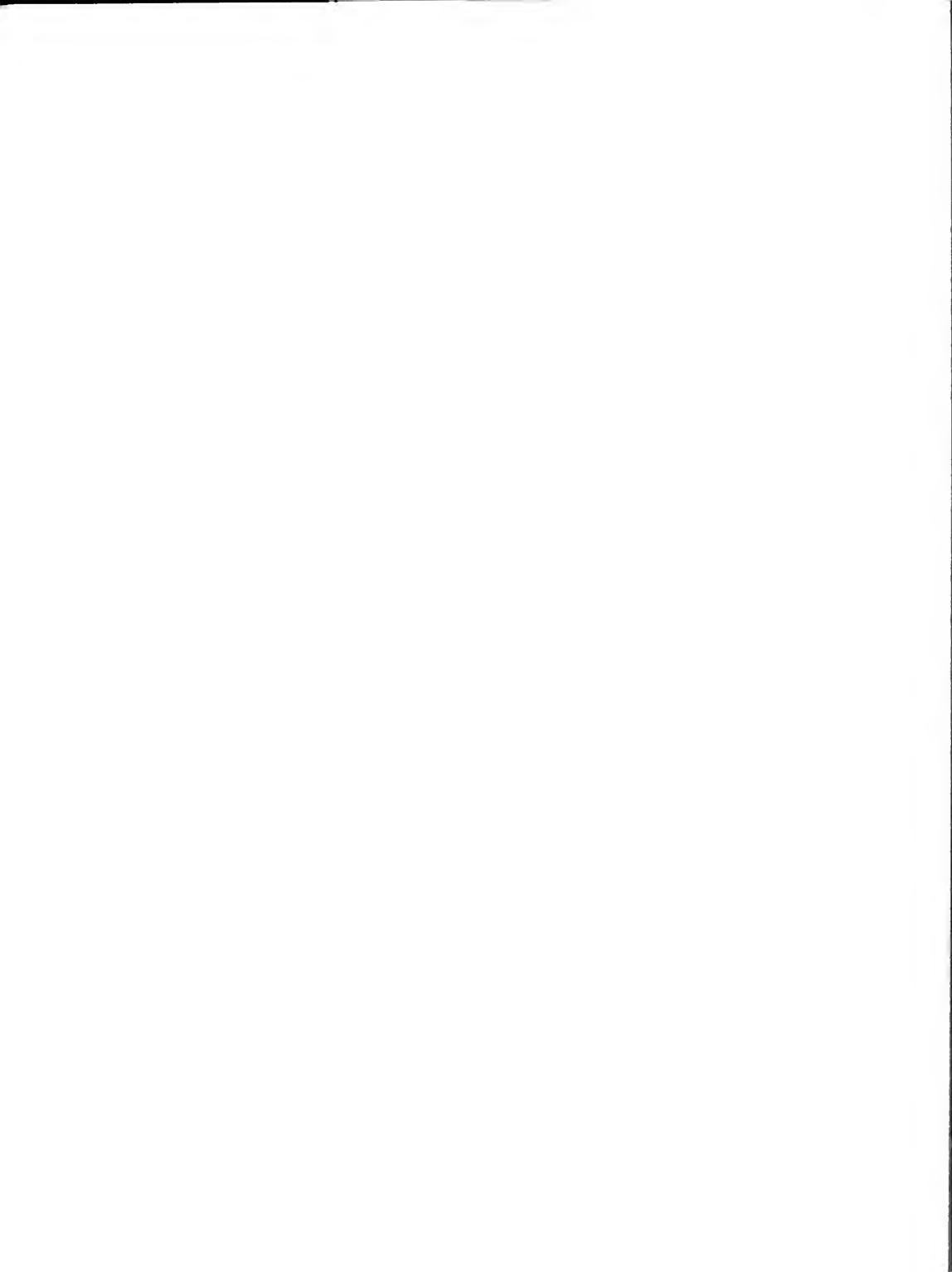
NAME	NUMBER	SOURCE OF SUPPLY	1966-67			1967-68			1968-69		
			METHOD	AMOUNT	TOTAL	METHOD	AMOUNT	TOTAL	METHOD	AMOUNT	TOTAL
Alpaugh & D. Western Portion of Alpaugh-Allenworth Area	5-22.14	CVP Pumping Plants								100	34'
Arvin-Edison W. S. D. Eastern Portion of Edison-Merced Area	5-22.41	CVP Kern Co. Canal District Wells	a	12,441	12,441	a	98,766	98,766	a	15,586	15,586
Buena Vista W. S. D.	5-22.42	CVP Kern River Buena Vista Lake Calif. Aqueduct	n	14,000		n	138,000		n	14,741	
			c	24,142	41,142	c	53,300	246,700	c	13,600	41,800
Chowchilla W. D.	5-22.12	CVP & Chowchilla River	a	1,000	9,800	n	72,404		n	11,162	
			c	1,000		c	1,400		c	1,000	
			a	40,000		a	40,000		a	22,241	
			c	5,000		c	5,000		c	5,000	
			p	20,000		p	20,000	155,400	p	23,642	101,700
Consolidated I. D.	5-22.18	Kings River				c	15,000	225,000	n	11,100	
			c			c			c	14,000	145,000
Corcoran I. D.	5-22.46	Kings River Cross Creek				c	12,000		c	10,500	
			a	54,116		a	54,116		a	6,250	
			p	1,100		p	1,100	123,116	p	87,626	104,376
Delano-Eastlawn I. D.	5-22.37	CVP				n	3,000		n	2,537	
			a	647		a	647		a	519	
			c	494	1,200	c	67	4,000	c	73	3,129
Devil's Den W. D. Kern County between State Hwy 13 & Coastal Branch of Calif. Aqueduct	5-22.45	Calif. Aqueduct	c	1,000	4,000						
Dudley Ridge W. D. Western Portion of Tulare Lake-Lost Hills Area	5-22.48	Calif. Aqueduct	c	403	4,000	c	96		c	1,300	
			p	3,600		p	4,000	1,200	p	5,000	1,200
El Nido I. D.	5-22.10	Merced I. D. Maricopa and Deadend Creeks	c	49	2,000	a	3,100		a	2,100	
			c	2,500		c	2,500		c	3,000	
Exeter I. D.	5-22.26	CVP & Kaweah R. & Foothill Ditch Co.	n	660	660	n	1,042		n	592	592
			p			p	44	1,000	p		
Fresno I. D.	5-22.15	CVP & Kings River	n	437		n	8,144		n	1,147	
			c	73,342		c	80,700		c	41,282	
			a	60		a	12,472		a	4,400	
			p	1,000		p	3,144		p	611	
				123,880	41,342		137,460	241,700		155,117	257,649
Hacienda W. D. Southern Portion of Tulare Lake-Lost Hills Area	5-22.47	Kern River				n	2,000		n		
			c			c	2,000		c		
			c			c	25,000	30,000	c		
Ivanhoe I. D.	5-22.23	CVP & Mutchuma Water Co.	n	865		n	1,000		n	342	
			a	98		a	1,721		a	24	
			p	314	1,749	p	792	3,000	p	456	671
Laguna I. D. Northern Portion of the Lower Kings River Area	5-22.20	CVP & Pine Flat Dam							a	160	160
Lakeview I. D. Western Portion of the Lower Delta W. S. D.	5-22.24	CVP & St. Johns River	n	1,100		c	14,800		n	8,651	
			c	4,100		c	13,000		c	21,310	
			p	1,100	42,000	p	100	100,000	p	6,937	108,000
Lindore I. D.	5-22.28	CVP				a	75	75			
Lindsay-Strathmore I. D.	5-22.27	CVP & Mutchuma Water Co.	p	20,613	20,613						
Lower Tule River I.D.	5-22.10	CVP	n	21,504		n	136,700		n	84,900	
			c	40,000		c	2,000		c	12,500	
			a	11,000		a	3,000		a	7,000	
			p	3,200		p	17,000	17,000	p	3,000	108,000
			c	4,200	41,704						
Madera I. D.	5-22.13	CVP & Fresno River	n	2,924		n	8,400		n	31,244	
			c	43,424		c	62,300		c	59,401	
			a	636		a	11,200		a	4,000	
			p	1,000	117,174	p	42,374	124,300	p	117,228	146,337
North Kern W. S. D.	5-22.17	Kern River & Poor Creek	n	4,000		n	30,500		n	7,704	
			a	24,000		a	15,000		a	34,862	42,570
			p	135,111	164,004	p	151,000	229,400	p		
Paxley I. D.	5-22.33	CVP	n	624	6,624						
Porterville I. D.	5-22.29	CVP & Tule River	n	5,000		n	3,000		n	8,000	
			c	3,000		c	3,000		c	4,000	
			a	1,000		a	1,000		a	1,000	
			p	2,000		p	2,000	12,000	p	1,000	17,000
Rosedale-Rio Bravo W. S. D. Northern Portion of the Kern River Delta Area	5-22.40	Kern River	n	23,800		n	24,000		n	11,612	
			c	10,000		c	10,000		c	10,000	
			a	1,000		a	1,000		a	1,000	
			p	1,000		p	1,000		p	1,000	
				35,800			36,000			24,612	37,112
Saucelito I. D.	5-22.32	CVP Mile Ditch	p	1,000	1,000	n	63		n	400	
						c	1,263	1,000	c		
Stetford I. D. Northern Portion of Tulare Lake-Lost Hills Area	5-22.49	Lemoore Canal Kings River				p	3,600	4,000			
Terra Bella I. D.	5-22.40	Deer Creek Ditch	n	763	763	c	155		n	400	
Tulare I. D.	5-22.25	CVP Kaweah River	n	41,000		n	2,000		n		
			c	2,000	49,000	c			c		
Zandella I. D.	5-22.31	Tule River	a	2,000	2,000				a		

Record published as received from districts and agencies

CVP Central Valley Project
n Natural stream channels
c Canals
a Artificial recharge basins
o Open land spreading
i Injection method
p Other specification from irrigation
No method indicated

APPENDIX D

SURFACE WATER QUALITY



INTRODUCTION

Appendix D summarizes the surface water quality (i.e., total dissolved solids) data for the San Joaquin Valley for 1970 water year (October 1, 1969 through September 30, 1970). These data were obtained from analyses of water samples from 10 surface water quality sampling stations and 6 electrical conductivity recorders. Water samples are collected by the Department of Water Resources; the U. S. Corps of Engineers; U. S. Forest Service; California Regional Water Quality Control Board - Central Valley Region; and Kern County Department of Parks and Recreation. Electrical conductivity recorders are serviced and maintained by the Department of Water Resources.

Laboratory analyses of surface water samples reported herein were performed in accordance with the 15th Edition of "Standard Methods for the Examination of Water and Waste Water".

Each station in this appendix has been assigned an eight-digit identification number. The first two digits denote the drainage basin as shown below. The remaining six digits identify each station.

HYDROGRAPHIC AREA B SAN JOAQUIN RIVER BASIN

- B0 - San Joaquin Valley Floor
- B3 - Stanislaus River
- B4 - Tuolumne River
- B5 - Merced River
- B6 - Fresno-Chowchilla Rivers
- B7 - Kings River
- B8 - San Joaquin Valley Floor

HYDROGRAPHIC AREA C TULARE LAKE DRAINAGE BASIN

- C0 - Tulare Lake Valley Floor
- C1 - Kings River
- C2 - Kaweah River
- C3 - Tule River
- C4 - Owens River
- C5 - San Joaquin River
- C6 - Tehachapi Mountains
- C7 - Tulare Lake Basin

TABLE D-1
SURVEILLANCE STATION DATA AND INDEX
FOR
SURFACE WATER

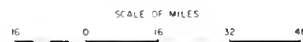
	Station Identification Number	Location ^a	Period of Record ^b	Frequency of Sampling ^c	Sampled By ^d	Analysis or Page
Pig Creek above Pine Flat Reservoir	C11320.00	12S/26E- 4	July 1969	M ^e	USACE	194
Blackburn Creek at West Ranch near Dan's A Frame	C61555.30	11N/14W- 1				195
Chiquito Creek at Highway 100	B71548.30	6S/24E-20				197
Chowchilla River near Raymond	B64200.00	8S/13E- 1	January 1962	J	DWR	198
Delta-Mendota Canal near Mendota Pool	B00770.00	13S/15E-19	July 1952	Q	DWR	199
Dinkey Creek above Balch Camp	C12090.30	12S/26E-12				197
Dry Creek below H Street	C15130.30	14S/20E-05				198
Fresno River above Lev Lumber Co.	B67319.30	7S/21E-15				197
Fresno River below Lev Lumber Co.	B67316.30	7S/21E- 9				194, 197
Fresno River near Daulton	B67150.00	9S/19E-34	January 1958	J	DWR	198
Griswold Creek below Cal-Merc Inc.	B31160.30	16S/12E-16				194, 197
Kaweah River at Three Rivers	C21250.00	17S/28E-27	April 1951	M ^e	USACE	194
Kaweah River below Terminus Dam	C02135.00	17S/27E-25	September 1961	S	USACE	197
Kern River above Calloway Weir	C05145.30	29S/28E- 9				197
Kern River at Kernville	C51500.00	25S/33E-15				198
Kern River below Isabella Dam	C51350.00	26S/33E-30	September 1955	J	USACE	194
Kern River near Bakersfield	C05150.00	29S/28E- 9	April 1951	S	KCPR	194, 197
Kings River below North Fork	C11460.00	12S/26E-21	September 1955	M ^e	USACE	194
Kings River below Peoples Weir	C01140.00	17S/22E- 1	April 1951	S	DWR	198
Kings River below Pine Flat Reservoir	C11140.00	13S/24E- 2	September 1955	S	USACE	194, 197
Kings River North Fork at Balch Camp	C12250.00	12S/26E-10				198
Kings River north of Empire Weir No. 1	C01122.30	19S/19E-36				195, 197
Lilimkin Creek at Old Barn on Wyman Ranch	C61550.30	12N/15W-35				195
Little Creek at Highway 65 Bridge	C44050.30	27S/27E- 3				195
Manzanita Lake at North Fork Water Supply	B71286.50	8S/22E-12				194, 200
Mendota Pool south of Dam	B00050.30	13S/15E-20				194, 197
Merced River at Milliken Bridge	B05131.00	6S/ 9E-36	April 1951	J	DWR	190, 197
O'Neill Forebay near Aqueduct Intake	B00740.30	10S/ 9E- 7				197
Poso Creek at Head of Diversion Canal	C04452.30	27S/27E-30				195
Poso Creek at Zerkel Road	C04446.30	27S/26E-23				195
Salt Slough near Stevenson	B00470.00	8S/10E-10	October 1969	S	DWR	192, 200
San Carlos Creek below New Idria Mine	B91180.30	17S/12E-29				194, 197
San Joaquin River at Fremont Ford	B07375.00	7S/ 9E-24	July 1955	S	DWR	193, 197, 200
San Joaquin River at Maze Road Bridge	B07040.00	3S/ 7E-33	April 1951	S	DWR	192
San Joaquin River below Friant	B07885.00	11S/21E- 7	April 1951	S	DWR	193
San Joaquin River near Grayson at Laird Slough	B07080.00	4S/ 7E-24	April 1959	Q	DWR	193
San Joaquin River near Mendota	B07710.00	13S/15E- 7	April 1951	S	DWR	193
San Joaquin River near Vernalis	B07020.00	3S/ 6E-13	April 1951	M	DWR	192, 197, 200
Stanislaus River at Koettitz Ranch	B03115.00	3S/ 7E- 2	April 1951	J	DWR	192, 197
Tecum Creek	C62050.30	12N/18W-28				195
Tule River below Success Dam	C03106.00	21S/28E-35	July 1952	J	USACE	193, 197
Tule River near Springville	C31150.00	21S/29E-15	November 1963	M ^e	USACE	194
Tuolumne River at Hickman Bridge near Waterford	B04150.00	3S/11E-34	April 1951	J	DWR	190
Tuolumne River at Tuolumne City	B04105.00	4S/ 8E-12	April 1951	J	DWR	192, 197
Willow Creek North Fork above Bass Lake	B71220.00	8S/23E- 9				197
Willow Creek South Fork above Highway 100	B71245.30	8S/23E-13				194, 197

- a. Locations are in reference to Mt. Diablo Base and Meridian
b. Beginning of record is indicated by the date
c. M - Monthly, Q - Quarterly, J - Semiannually, S - Annually
d. DWR - Department of Water Resources, USACE - United States Army Corps of Engineers,
KCPR - Kern County Parks and Recreation
e. Discontinued in December 1964

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

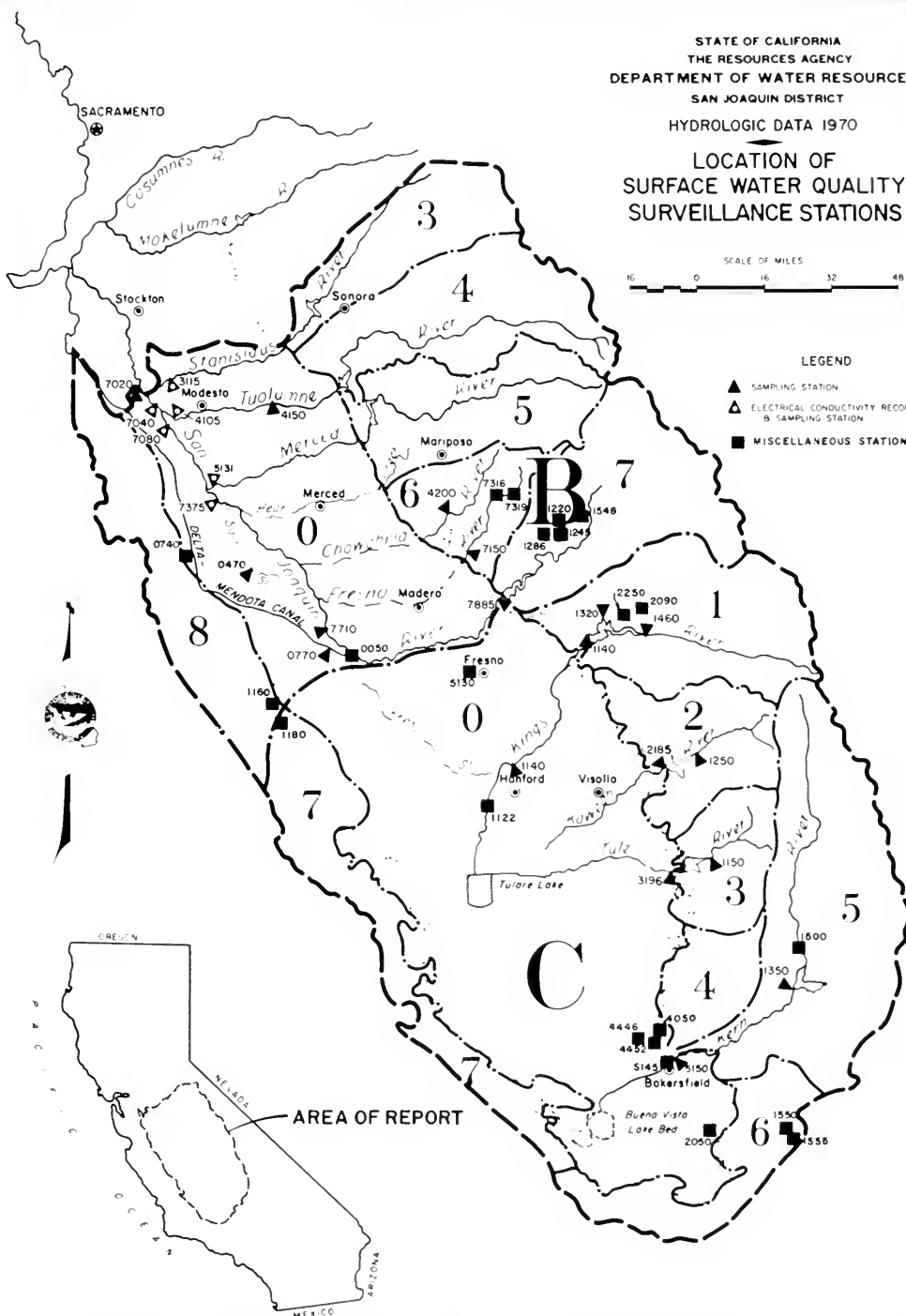
HYDROLOGIC DATA 1970

LOCATION OF
SURFACE WATER QUALITY
SURVEILLANCE STATIONS



LEGEND

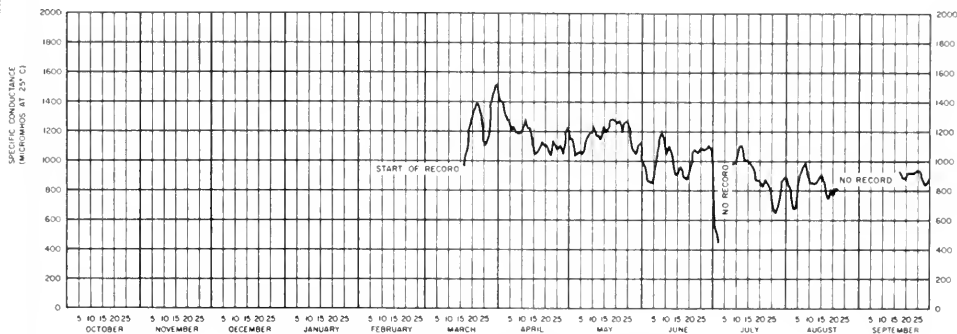
- ▲ SAMPLING STATION
- △ ELECTRICAL CONDUCTIVITY RECORDER
B SAMPLING STATION
- MISCELLANEOUS STATIONS



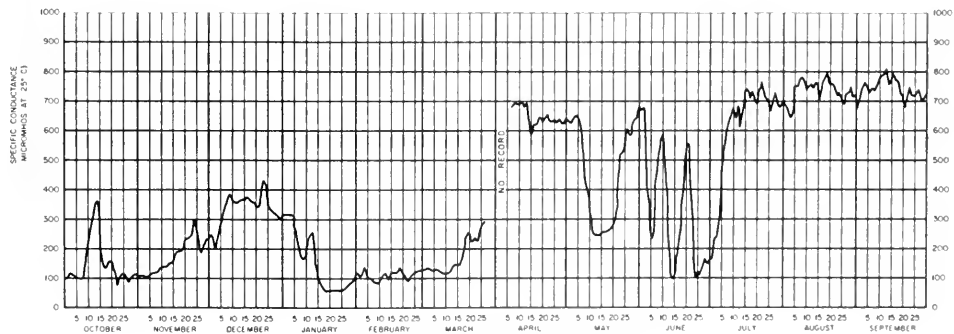
The graph displays specific conductance data over a 12-month period. The y-axis represents specific conductance in micromhos at 25°C, ranging from 0 to 500. The x-axis shows dates from October to September. The data shows a seasonal pattern with peaks in late January (approx. 200 micromhos) and late March (approx. 200 micromhos). There are significant drops in late July and late August, both labeled 'NO RECORD'.

Date	Specific Conductance (MICROMH/CM AT 25° C)
October 1	100
October 15	50
November 1	50
November 15	100
December 1	50
December 15	100
January 1	150
January 15	200
February 1	50
February 15	100
March 1	150
March 15	200
April 1	150
April 15	200
May 1	150
May 15	200
June 1	150
June 15	200
July 1	150
July 15	100
August 1	150
August 15	100
September 1	150
September 15	100

188

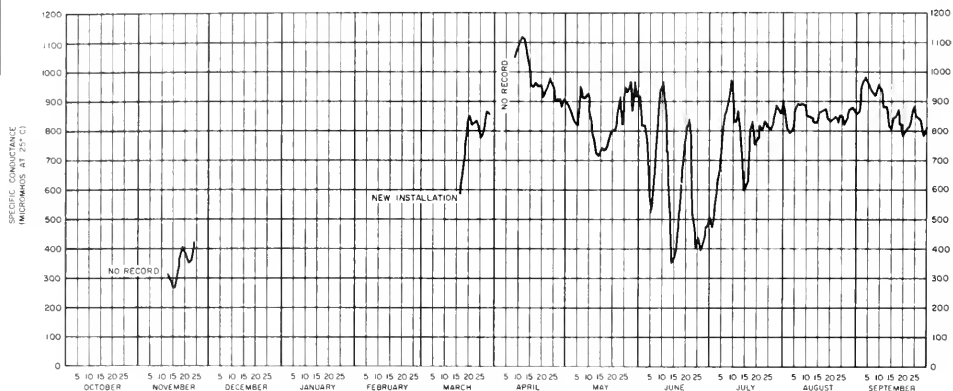


SAN JOAQUIN RIVER NEAR GRAYSON AT LAIRD SLOUGH
STA. No. B07080.00 RIVER MILE 96.05

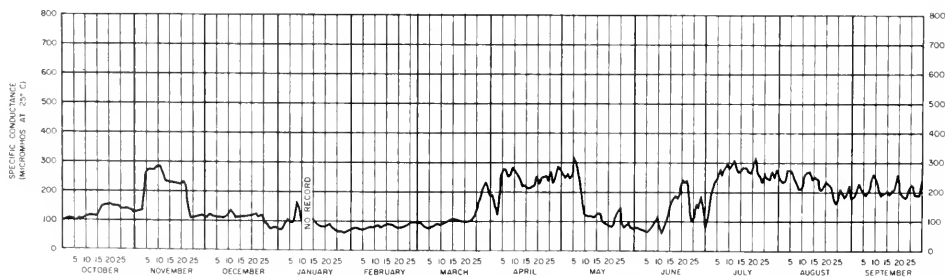


TUOLUMNE RIVER AT TUOLUMNE CITY
STA. No. B04105.00 RIVER MILE 3.35

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1970



SAN JOAQUIN RIVER AT MAZE ROAD BRIDGE
STA. No. B07040.00 RIVER MILE 81.95



STANISLAUS RIVER AT KOETITZ RANCH
STA. No. B03115.00 RIVER MILE 9.4

DAILY MEAN SPECIFIC CONDUCTANCE AT SELECTED STATIONS
SAN JOAQUIN VALLEY
1970

TABLE D-2
MINERAL ANALYSES OF SURFACE WATER

This table presents analyses performed by the Department of Water Resources Bryte Laboratory (coded 5050) or the U. S. Geological Survey Sacramento Laboratory (coded 5000).

The sampler codes are as follows:

5002 U. S. Army Corps of Engineers
5005 U. S. Forest Service
5050 Department of Water Resources
5055 California Regional Water Quality Control Board - Central Valley Region
5060 California Department of Public Health
5633 Kern County Parks and Recreation Department
5647 Tehachapi Cummings County Water District

The following are definitions of chemical symbols and of abbreviations used in this table.

<u>Chemical Symbols</u>	<u>Abbreviations</u>
Ca Calcium	TEMP Temperature
Mg Magnesium	DO Dissolved Oxygen in mg/l
Na Sodium	SAT Per Cent Saturation
K Potassium	GH Gage Height in feet
CO ₃ Carbonate	Q Flow in cfs
HCO ₃ Bicarbonate	FLD Field Determination
SO ₄ Sulfate	LAB Laboratory
CL Chloride	EC Electrical Conductance in micromhos
NO ₃ Nitrate	pH Measure of acidity or alkalinity of water
F Fluoride	TDS Total Dissolved Solids
B Boron	TH Total Hardness
SiO ₂ Silica	NCH Non-carbonate Hardness

TABLE D-2
MINERAL ANALYSES OF SURFACE WATER

Date	Lat.	Long.	Elev.	G.M.	P.H.	EC	pH	Mineral Constituents in Milliequivalents per Liter										Milligrams per Liter			
								Ca	Mg	Na + K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	F	B	SiO ₂	TDS	TH	
Time	Lat.	Long.	Elev.	G.M.	P.H.	EC	pH	Ca	Mg	Na + K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	F	B	SiO ₂	TDS	TH	
B0470.00																					
SALT SLOUGH NEAR STEVENS																					
70-02-11	5050	63441		2040	7.5	105		5.44	57	426	6.0	0	151	656	442	5.5			4.1	1870	506
	5050								4.67	10.53	0.15	0.00	2.47	13.66	12.47	0.09				382	
70-02-12	5050	63712	6.4	2051	7.7	45		2.30	102	105	4.2	0	155	36	145	6.8			0.3	517	196
	5050	75							1.62	4.74	0.11	0.00	2.01		4.12	0.11					
70-04-06	5050	63610	5.8	2055	8.0	90		4.51	36	217	6.6	0	164	331	244	17			1.5	1050	373
	5050	85							2.95	5.44	0.17	0.27	2.09	6.89	6.88	0.27				225	
B00770.00																					
DELTA MENDOTA CANAL NEAR MENDOTA																					
70-01-14	5050	62673	12.3	380	6.1					64		0	101		80				0.3		111
	5050	51		536	7.6					2.78		0.00	1.66		2.26					28	
70-04-06	5050	63014	5.2	400	7.5	21		1.07	10	37	2.3	0	75	50	45	3.3			0.2	213	95
	5050	64		384	8.1				0.83	1.61	0.06	0.00	1.23	1.04	1.27	0.05				33	
70-07-06	5050	63594	5.7	300	7.6					34		0	84		38				0.1		97
	5050	70		349	7.0					1.48		0.00	1.38		1.07					28	
70-06-03	5050	64700	7.4	250	7.5	17		0.85	10	38	2.4	0	78	27	51	2.5			0.0	213	85
	5050	77		350	7.7				0.85	1.65	0.06	0.00	1.28	0.56	1.44	0.05					
70-09-10	5050	65525	7.0	503	7.9					70		0	139		106				0.3		161
	5050	74		573	7.7					3.04		0.00	2.28		2.55					47	
B03115.00																					
STANISLAUS RIVER AT KORTITZ RANCH																					
70-04-06	5050	63824	9.3		7.3	26		1.27	10	16	2.5	2	129	17	7.4	7.6			0.0	165	107
	5050	86		277	6.4				0.95	0.70	0.06	0.07	2.11	0.35	0.21	0.12				0	
70-06-05	5050	66134	6.0	290	7.6	27		1.35	10	15	2.4	0	139	14	8.3	8.5			0.0	168	110
	5050	7703		282	7.7				0.85	0.65	2.06	0.00	2.28	0.29	0.22	0.14					
B04105.00																					
TUOLUMNE RIVER AT TUOLUMNE CITY																					
70-04-06	5050	63832	10.8		7.6	39		1.94	13	62	5.3	0	132	12	113	8.5			0.0	350	145
	5050	86		625	8.4				1.05	2.70	0.14	0.17	2.16	0.29	3.19	0.14				37	
70-06-05	5050	64723	5.6	750	7.9	48		2.40	11	80	5.2	0	150	13	145	10			0.1	442	166
	5050	74		750	8.0				0.92	3.48	0.13	0.00	2.46	0.30	4.09	0.16					
B04150.00																					
TUOLUMNE RIVER AT HICKMAN BRIDGE NEAR WATERFORD																					
70-04-06	5050	63822	10.7	475	8.0	26		1.32	10	45	4.2	0	91	4.8	96	1.9			0.0	286	107
	5050	71		477	8.4				0.82	2.13	0.11	0.00	1.45	0.10	2.71	0.03				32	
70-06-03	5050	64714	12.5	400	8.3	29		1.45	12	50	4.4	0	119	7.2	84	5.8			0.0	314	121
	5050	85		510	8.0				0.97	2.18	0.11	0.00	1.85	0.15	2.37	0.09					
B05131.00																					
MERCED RIVER AT MILLIKEN BRIDGE																					
70-04-06	5050	63820	10.9		7.4	13		0.63	3.9	12	1.6	0	66	7.6	4.8	4.6			0.0	88	48
	5050	1830		145	8.0				0.32	3.52	0.04	0.00	1.08	0.16	0.14	0.07				0	
70-06-04	5050	64722	9.0	210	7.6	15		0.75	6.9	17	2.2	0	88	9.2	8.0	8.8			0.0	129	66
	5050	75		237	8.3				0.57	0.74	0.06	0.00	1.44	0.15	0.22	0.14					
B07020.00																					
SAN JOAQUIN RIVER NEAR VERNALIS																					
69-10-06	5050	55330		300		16		0.60	7.6	33	2.0	0	74	23	40	2.1	0.1	0.05	13	72	11
	5050			312	7.4				0.63	1.44	0.05	0	1.21	0.48	1.13	0.03					
69-11-07	5050	55524	0.9	260	7.2	13		0.55	6.1	26	1.7	0	59	21	34	1.5	0.1	0.05	10	58	10
	5050	56		253	7.3				0.50	1.13	0.04	0.00	0.97	0.44	0.96	0.02					
69-12-05	5050	55669	10.2	350	7.3	17		0.65	7.9	36	1.8	0	67	37	40	2.6	0.1	0.15	11	75	20
	5050	50		336	7.3				0.65	1.57	0.05	0.00	1.10	0.77	1.13	0.04					
70-01-14	5050	55883	10.5	460	7.3	23		1.15	12	58	2.1	0	91	64	62	3.3	0.2	0.29	13	126	51
	5050	54		495	7.4				0.99	2.52	0.05	0.00	1.49	1.33	1.75	0.05					
70-02-04	5050	55942	0.8	340	8.4	17		0.85	8.2	38	1.9	0	68	45	40	2.3	0.1	0.21	13	78	20
	5050	51		346	7.3				0.67	1.65	0.05	0.00	1.11	0.94	1.13	0.04					
70-03-10	5050	56014	9.6	525	7.5	25		1.25	12	53	2.0	0	91	62	65	2.7	0.1	0.19	16	112	37
	5050	56		496	7.5				0.99	2.31	0.05	0.00	1.49	1.29	1.83	0.04					
70-04-15	5050	56231	10.5	500	7.7	44		2.20	18.1	4.09	0.10	0	156	96	130	6.8	0.3	0.34	20	200	72
	5050	61		646	7.6				1.81	4.09	0.10	0.00	2.56	2.90	3.67	0.11					
70-05-13	5050	56367	10.2	500	8.0	25		1.35	13	55	2.4	0	100	56	71	3.7	0.1	0.22	15	116	34
	5050	65		513	8.1				1.07	2.39	0.06	0.00	1.94	1.21	2.00	0.06					
70-07-11	5050	56567	11.1	450	8.0	26		1.30	13	51	2.6	0	100	54	67	5.0	0.1	0.32	19	118	36
	5050	69		484	7.1				1.07	2.22	0.07	0.00	1.64	1.12	1.69	0.06					
70-07-11	5050	56567	10.6	490	8.3	40		2.30	23	37	3.2	0	179	68	146	6.8	0.1	0.11	15	210	71
	5050	75		576	7.7				1.69	4.22	0.06	0.00	2.79	1.42	4.12	0.11					
70-08-10	5050	56567	10.2	520	8.2	45		2.25	22	58	3.9	0	179	70	135	5.6	0.2	0.26	20	203	64
	5050	65		659	7.5				1.81	4.26	0.10	0.00	2.74	1.44	3.89	0.09					
70-09-16	5050	56567	10.8	500	7.7	43		2.15	20.5	54	4.2	0	170	64	128	6.3	0.15	0.24	190	51	
	5050	65		616	7.7				1												

TABLE D-2 (Continued)

MINERAL ANALYSES OF SURFACE WATER

MINERAL ANALYSES OF SURFACE WATER

194

TABLE 1. MINERAL ANALYSIS OF SURFACE WATER

Date	Sample Loc. No.	Lab. No.	G.M.	Fid. No.	Fid. No.	Minerals, Constituents in Milligrams per Liter										Milliequivalents per Liter									
Time	Lat.	Temp.	Wind	Lab. No.	Lab. No.	Ca	Mg	Na	K	SO ₄	HCO ₃	CO ₃	Cl	NO ₃	SiO ₂	CH									
C 1120.3 KINGD RIVER NORTH OF EMPIRE #1 #1																									
7-11-73	44° 11'	67° 11'	14.0	112	1250	7.6	1.1	1.4	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1									
C 4444.30 GSC CREEK AT YIPPER RAIL																									
7-13-73	44° 11'	67° 11'	11.5	112	1250	5.3	4.1	2.23	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1									
C4452.30 FOOD CREEK AT HEAD OF DIVERSION CHANNEL																									
7-13-73	44° 11'	67° 11'	11.5	112	1250	5.3	4.1	2.23	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1									
C4455.30 LITTLE CREEK AT HIGHWAY #1 BRIDGE																									
7-13-73	44° 11'	67° 11'	11.5	112	1250	5.3	4.1	2.23	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1									
C4455.30 LIMEKILN CREEK AT OLD BARN ON WYMAN RANCH																									
6-11-74	44° 11'	67° 11'	11.5	112	1250	5.3	4.1	2.23	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1									
C4455.30 BLACKBURN CREEK AT WEST RANCH NEAR DANC A FRAME																									
6-11-74	44° 11'	67° 11'	11.5	112	1250	5.3	4.1	2.23	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1									
C4455.30 TRJON CREEK																									
7-11-73	44° 11'	67° 11'	11.5	112	1250	5.3	4.1	2.23	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1									

TABLE D-3
TRACE MINERAL ANALYSES OF SURFACE WATER

Table D-3 presents trace mineral analyses performed by the Department of Water Resources Laboratory or U. S. Geological Survey Laboratory. The following are definitions of abbreviations and chemical symbols used in this table.

Abbreviations

LAB Laboratory

5000 U. S. Geological Survey
5050 Department of Water Resources

M Milligrams per liter

U Micrograms per liter

Y Less than the amount indicated

Chemical Symbols

AL	Aluminum	GE	Germanium
AS	Arsenic	HG	Mercury
BE	Beryllium	LI	Lithium
BI	Bismuth	MN	Manganese
BR	Bromine	MO	Molybdenum
CD	Cadmium	NI	Nickel
CO	Cobalt	PB	Lead
CR	Chromium	SR	Strontium
CU	Cooper	TI	Titanium
FE	Iron	V	Vanadium
GA	Gallium	ZN	Zinc

TABLE 1-1
TRACE MINERAL ANALYSES OF SURFACE WATER

STATION NO.	DATE	LAB	AL LI	AS MN	BF MO	BI NI	BR PB	CD TI	CU V	CH ZN	CO SR	FE HG	OA	GE
B00050.30	70-09-02	5050	--	--	--	--	--	--	--	--	--	0.0M	--	--
B00740.30	70-09-02	5050	--	--	--	--	--	--	--	--	--	0.0M	--	--
B03115.00	70-04-06	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 1.40	3.3UY 1.3UY	3.3UY --	23U --	13UY	0.7UY
	70-06-05	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 5.3U	3.3UY 1.3UY	3.3UY --	8U --	13UY	0.7UY
B04105.00	70-04-06	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 4.3U	3.3UY 1.3UY	3.3UY --	73U --	13UY	0.7UY
	70-06-05	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 8U	3.3UY 1.3UY	3.3UY --	3.3UY --	13UY	0.7UY
B05131.00	70-04-06	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 1.6U	3.3UY 1.3UY	3.3UY --	6.0U --	13UY	0.7UY
	70-06-04	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 4.3U	3.3UY 1.3UY	3.3UY --	3.3UY --	13UY	0.7UY
B07020.00	69-10-06	5000	0.01MY --	--	--	--	--	--	--	--	0.20M --	--	--	--
	69-11-07	5000	0.01MY --	--	--	--	--	--	--	--	0.15M --	--	--	--
	69-12-05	5000	0.02MY --	--	--	--	--	--	--	--	0.20M --	--	--	--
	70-01-14	5000	0.00M --	--	--	--	--	--	--	--	0.31M --	--	--	--
	70-02-04	5000	0.01MY --	--	--	--	--	--	--	--	0.20M --	--	--	--
	70-03-16	5000	0.01M --	--	--	--	--	--	--	--	0.15M --	--	--	--
	70-04-15	5000	3.3UY 0.01MY	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 2.7U	3.3UY 1.3UY	3.3UY 0.36M	7.3U --	13UY	0.7UY
	70-05-13	5000	-- 0.01MY	--	--	--	--	--	--	--	0.11M --	--	--	--
	70-06-17	5000	0.01MY --	--	--	--	--	--	--	--	0.29M --	--	--	--
	70-07-15	5000	0.01M --	--	--	--	--	--	--	--	0.53M --	--	--	--
	70-08-10	5000	3.3UY 0.02M	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 5.3U	3.3UY 1.3UY	3.3UY 0.50M	53U --	13UY	0.7UY
	70-09-16	5000	0.01M --	--	--	--	--	--	--	--	0.47M --	--	--	--
B07375.00	70-04-06	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 3.6U	3.3UY 1.3UY	3.3UY --	6.7U --	13UY	0.7UY
	70-06-16	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	31U --	3.3UY 1.3UY	3.3UY 7.3U	3.3UY 1.3UY	3.3UY --	21U --	13UY	0.7UY
B07316.30	70-09-01	5050	--	--	--	--	--	--	--	--	--	0.0M	--	--
B07319.30	70-09-01	5050	--	--	--	--	--	--	--	--	--	0.0M	--	--
B71220.00	70-09-01	5050	--	--	--	--	--	--	--	--	--	0.0M	--	--
B71245.30	70-09-01	5050	--	--	--	--	--	--	--	--	--	0.0M	--	--
B71548.30	70-09-01	5050	--	--	--	--	--	--	--	--	--	0.0M	--	--
B81160.30	70-09-02	5050	--	--	--	--	--	--	--	--	--	0.0M	--	--
B81160.30	70-09-02	5050	--	--	--	--	--	--	--	--	--	10.0M	--	--
C01122.30	70-09-03	5050	--	--	--	--	--	--	--	--	--	0.0M	--	--
C01140.00	70-04-06	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 1.1U	3.3UY 1.3UY	3.3UY --	15U --	13UY	0.7UY
	70-06-03	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 0.7UY	3.3UY 1.3UY	3.3UY --	3.3UY --	13UY	0.7UY
C03195.00	70-04-06	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 1.7U	3.3UY 1.3UY	3.3UY --	11U --	13UY	0.7UY
	70-06-03	5000	3.3UY --	-- 3.3UY	1.3UY 3.3UY	0.7UY 0.7UY	43U --	3.3UY 1.3UY	3.3UY 1.4U	3.3UY 1.3UY	3.3UY --	52U --	13UY	0.7UY
C05145.30	70-09-03	5050	--	--	--	--	--	--	--	--	--	0.0M	--	--
C05150.00	70-06-03	5000	3.3UY --	-- 3.3UY	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 1.4U	3.3UY 1.3UY	3.3UY --	41U --	13UY	0.7UY
C12090.30	70-09-01	5050	--	--	--	--	--	--	--	--	--	0.0M	--	--

TABLE 1-3
TRACE MINERAL ANALYSES OF SURFACE WATER
(continued)

STATION NO.	DATE	LAB	AL LI	AS MN	BE MO	BI NI	BR PB	CD TI	CO V	CR ZN	CU SR	FE HG	GA	GE
C12250.00	70-09-11	5050	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.00M	-- --	-- --
C15130.30	70-09-10	5050	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- 0.00M	-- --	-- --
C51500.00	70-04-07	5000	25U --	-- 3.3UY	1.3UY 3.3U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.5UY	3.3UY 8.7U	3.3UY 13UY	3.3UY --	13U --	13UY	0.7UY

TABLE D-4
MISCELLANEOUS CONSTITUENTS OF SURFACE WATER

Table D-4 presents analyses which do not appear on Tables D-2 and D-3. The following are definitions of abbreviations used in this table.

BOD	Biochemical Oxygen Demand
COD	Chemical Oxygen Demand
NH ₃ +N	Ammonia plus Organic Nitrogen (as N)
POT	Total and Organic Phosphates (as P)
TRB	Turbidity
LAB	Laboratory

5000 U. S. Geological Survey

5050 Department of Water Resources

5060 State Department of Public Health

TABLE D-4
MISCELLANEOUS CONSTITUENTS OF SURFACE WATER
(Milligrams per liter)

STATION NO.	DATE	LAB	BOD	COD	NH ₃ +N	POT	TRB
B00470.00	70-02-11	5050			1.8	0.63	
B07020.00	69-10-08	5050	2.7	7			
	69-10-08	5000				0.49	15
	69-11-07	5050	2.8	5			
	69-11-07	5000				0.35	25
	69-12-05	5050	2.3	6			
	69-12-05	5000				0.50	16
	70-01-14	5050	2.2	7			
	70-01-14	5000				0.56	15
	70-02-04	5050	1.6	5			
	70-02-04	5000				0.09	35
	70-03-18	5050	2.2	17			
	70-03-18	5000				0.20	30
	70-04-15	5050	4.9	22			
	70-04-15	5000				1.5	30
	70-05-13	5050	3.6	14			
	70-05-13	5000				0.52	40
	70-06-17	5050	3.6	8			
	70-06-17	5000				1.0	45
	70-07-15	5050	6.8	23			
	70-07-15	5000				1.4	46
	70-08-18	5050	5.3	35			
	70-08-18	5000				1.4	50
	70-09-16	5050	5.2	16			
	70-09-16	5000				0.99	16
B07375.00	70-02-11	5050			1.4	0.24	
B71286.50	70-08-05	5060					2.1

APPENDIX E
GROUND WATER QUALITY

INTRODUCTION

Appendix E summarizes the ground water quality data for the San Joaquin Valley for the 1970 water year (October 1, 1969 through September 30, 1970). These data were obtained from analyses of water samples from approximately 230 wells.

Laboratory analyses of ground water samples reported herein were performed in accordance with the 12th Edition of "Standard Methods for Examination of Water and Waste Water".

A complete description of the State Well Numbering System, used in this report to indicate the location of the wells sampled, is contained in Appendix C, "Ground Water Data", page 139.

TABLE E-1
MINERAL ANALYSES OF GROUND WATER

This table presents data resulting from the collection and analysis of ground water by various laboratories and agencies cooperating with this program. The code numbers listed below will identify these program cooperators as they appear in this tabulation.

5050	State Department of Water Resources
5070	State Division of Forestry
5129	Kings County Water District
5647	Tehachapi Cummings Water District
5648	Buttonwillow Improvement District
5702	Individual Property Owner
5703	Valley Waste Disposal Company
5718	Jade Oil and Gas Company
5803	Hornkohl Laboratory
5806	B. C. Laboratory
5817	Biological Testing and Research Laboratory

Explanation of county code is listed on page 12.

Chemical Symbols

K	Potassium	B	Boron
Mg	Magnesium	Ca	Calcium
Na	Sodium	Cl	Chloride
NO ₃	Nitrate	CO ₃	Carbonate
SiO ₂	Silica	F	Fluoride
SO ₄	Sulfate	HCO ₃	Bicarbonate

Abbreviations

EC	Electrical Conductance	TDS	Total Dissolved Solids
FLD	Field Determination	TEMP	Temperature
LAB	Laboratory	TH	Total Hardness
NCH	Non-Carbonate Hardness	pH	Measure of Acidity or Alkalinity of Water

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

State Well Number	Lab No.	Sampl. Temp. °F	Field EC	Field pH	Mineral Constituents in					Milligrams per Liter					Milliequivalents per Liter					Milligrams per Liter				
Date	Time	Co.	Lab.	Lab.	EC	Lab. pH	Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	F	B	SiO ₂	FeS	TH				
17S/20E-36R02M 70-06-27	65487 16	5129 5050			126 7.8		12 0.52				0.0 0.00	56 0.92		3.0 0.08	0.0 0.00					50				
17S/21E-32F01M 70-06-27	65488 16	5129 5050			158 8.1		20 0.87				0.0 0.00	85 1.39		3.0 0.98	0.0 0.00					39				
17S/22E-11F01M 70-04-16	63966 16	5050 5050	66		1050 1040	8.1	63 3.14	20 1.62	163 7.09		0.0 0.00	524 6.59		21 0.59	47 0.76					238				
17S/22E-25A01M 70-06-27	65489 16	5129 5050			470 8.3		36 1.57				0.0 0.00	194 3.18		26 0.73	19 0.31		0.0			174				
17S/23E-20N01M 69-10-15	61919 54	5050 5050	66		2000 1780	7.2	58 2.89	64 5.30	224 3.74	6.1 0.16	0.0 0.00	357 6.51	85 1.77	343 5.68	21 0.34		0.5		1050	410				
17S/24E-25F01M 69-10-17	61920 54	5050 5050	69		1300 985	7.6	54 2.69	41 3.37	83 3.61	3.7 0.09	0.0 0.00	196 3.21	89 1.85	140 3.95	53 0.85		0.2		620	303				
17S/26E-17E01M 69-10-17	61933 54	5050 5050	67		1100 982	8.2	69 3.44	39 3.19	91 3.96		0.0 0.00	340 5.57		65 1.83	48 0.77					332				
18S/21E-03J01M 70-04-15	63967 16	5050 5050	68		180 190	8.1	22 1.10	0 0.00	15 0.65		0.0 0.00	95 1.56		6.3 0.18	2.5 0.04					55				
18S/21E-26D01M 70-04-15	63846 16	5050 5050			243 243	8.1	0.9 0.04	0.7 0.06	54 2.35	0.5 0.01	0.0 0.00	108 1.77	5.8 0.12	15 0.42	1.8 0.03		0.2		184	5				
18S/22E-25Q01M 70-04-16	63847 16	5050 5050	65		1100 1100	8.3	46 2.30	7.5 0.62	180 7.83	0.4 0.01	0.0 0.00	235 3.85	104 2.16	165 4.65	0.0 0.00		0.0		675	146				
18S/23E-25H02M 69-10-15	61934 54	5050 5050	68		360 275	8.1	28 1.40	2 0.16	32 1.39		0.0 0.00	144 2.36		6.6 0.19	10 0.16					78				
18S/24E-31E01M 70-09-01	BTR01 54	5702 5817					39 1.70								21.7 0.35		0.01							
18S/25E-11Q01M 69-10-17	61921 54	5050 5050	67		900 451	7.7	24 1.20	28 2.30	30 1.30	2.8 0.07	0.0 0.00	243 3.98	9.4 0.20	17 0.48	12 0.19		0.7		228	175				
18S/25E-29Q01M 69-10-16	61935 54	5050 5050	66		250 199	8.2	25 1.25	5 0.39	9.3 0.41		0.0 0.00	105 1.72		6.2 0.17	5.2 0.08					82				
18S/26E-04Q01M 69-10-17	61922 54	5050 5050	67		1700 1480	7.5	89 4.44	69 5.71	120 5.22	6.1 0.16	0.0 0.00	366 6.00	78 1.62	199 5.61	156 2.52		0.0		911	508				
19S/22E-06D02M 70-04-15	63968 16	5050 5050	66		350 441	8.2	16 0.80	40 0.30	86 3.74		0.0 0.00	178 2.92		24 0.68	0.1 0.00					55				
19S/22E-22C01M 70-04-15	63963 16	5050 5050	69		470 537	8.0	32 1.60	2.4 0.20	69 3.00	0.3 0.01	0.0 0.00	86 1.41	31 0.64	92 2.60	0.2 0.00		0.0		302	90				
19S/23E-01A01M 70-09-01	BTR02 54	5702 5817					33 1.43								103.1 1.66		0.06							
19S/23E-01H01M 70-09-01	BTR03 54	5702 5817					42 1.83								32.8 0.53		0.00							
19S/23E-02N01M 70-09-01	BTR04 54	5702 5817					40 1.74								28.8 0.46		0.04							
19S/23E-24Q02M 69-10-15	61936 54	5050 5050	68		280 242	8.2	37 1.85	2 0.17	12 0.52		0.0 0.00	132 2.16		5.9 0.17	5.1 0.08					101				
19S/24E-04N01M 70-09-01	BTR05 54	5702 5817					37 1.61								15.9 0.26		0.02							
19S/24E-06N01M 70-09-01	BTR06 54	5702 5817					32 1.39								8.0 0.13		0.04							
19S/25E-11J01M 69-10-15	61937 54	5050 5050	67		180 131	7.8	15 0.75	3.8 0.31	6.2 0.27		0.0 0.00	67 1.10		3.0 0.08	1.4 0.02					53				
19S/26E-26M01M 69-10-16	61938 54	5050 5050	70		650 754	8.5	32 1.60	27 2.24	86 3.74		5 0.17	181 2.97		102 2.88	23 0.37					192				
20S/23E-16M01M 69-10-15	61923 54	5050 5050	71		180 162	8.2	6.2 0.31	0.3 0.02	33 1.40	0.6 0.02	0.0 0.00	95 1.56	1.8 0.04	1.5 0.05	1.1 0.02		0.0		130	17				
20S/25E-03A01M 69-10-15	61924 54	5050 5050	69		320 334	7.6	36 1.78	12 0.96	17 0.74	3.7 0.09	0.0 0.00	160 2.62	9.0 0.14	12 0.34	16 0.26		0.1		207	137				
20S/26E-02E03M 69-10-16	61939 54	5050 5050	70		1600 1610	8.2	130 6.49	82 6.78	65 2.83		0.0 0.00	266 4.36		379 10.69	29 0.47					664				
21S/17E-25H01M 70-04-14	63969 16	5050 5050	74		1400 1400	8.0	82 4.09	22 1.84	188 8.18		0.0 0.00	74 1.26		140 3.45	30 0.48					297				
21S/18E-02D03M 70-04-14	63964 16	5050 5050	74		1000 926	8.2	25 1.25	5 0.41	162 7.05	1.2 0.03	0.0 0.00	105 1.72	305 6.35	25 0.70	0.1 0.00		0.5		631	83				
21S/19E-15E02M 70-04-14	63970 16	5050 5050	76		800 841	8.1	24 1.20	2.7 0.22	143 6.22		0.0 0.00	74 1.21		46 1.30	0.0 0.00					71				
21S/26E-14N01M 69-10-15	61925 54	5050 5050	65		280 218	7.7	29 1.45	3.0 0.25	14 0.61	2.2 0.06	0.0 0.00	125 2.05	2.3 0.05	4.1 0.12	2.4 0.04		0.1		164	85				
21S/27E-15F01M 69-10-16	61926 54	5050 5050	67		675 592	7.7	74 3.67	18 1.52	29 1.26	3.2 0.08	0.0 0.00	291 4.77	11 0.23	29 0.82	27 0.44		0.1		336	260				
21S/27E-17R01M 70-09-17	65907 54	5050 5050	78		640 676	7.0								33 0.93	58 0.94									
21S/27E-21A01M 70-09-17	65944 54	5050 5050	77		925 973	7.2								57 1.61	87 1.40									
21S/27E-21K02M 70-09-17	65945 54	5050 5050	72		440 449	7.0								13 0.37	23 0.37									
21S/27E-21N01M 70-09-17	65946 54	5050 5050	70		215 206	7.1								26 0.73	3.2 0.05									

TABLE E-1 (Continued)

MINERAL ANALYSES OF GROUND WATER

MINERAL ANALYSES OF GROUND WATER

208

TABLE E-1. (Continued)
MINERAL ANALYSES OF GROUND WATER

State well Number	Lab No.	Sample	Temp.	pH	Pld. EC	Pld. pH	Mineral Constituents in Milligrams per Liter												Milligrams per Liter						
Date	Time	Co.	Lab.	Temp.	EC	Lab. EC	Ca	Mg	Na	K	Cl	SO ₄	NO ₃	CO ₃	HCO ₃	SiO ₂	Fe	Al	NO ₂	P	B	SiO ₂	Fe	Al	NO ₂
27S/23E-2100M 70-04-14	5528 15	5648 5648	79		459	4.1	10	3.5	1.1	4.0		43	76	78	2.20	0.4	0.0					279	25		
27S/23E-2200M 70-04-15	4506 15	5648 5648	79		1340	8.6	30	1.49	1.76	12.44		7.00	0.23	1.35	11.60	0.01	0.44					822	75.1		
27S/23E-2300M 70-04-15	9504 15	5648 5648	80		762	8.5	39	1.136	1.00	5.91		0.00	0.82	1.50	5.54	0.14	1.19					468	57.6		
27S/23E-2400M 70-04-15	3542 15	5648 5648	76		268	6.9	8	0.40	0.00	3.00		33	86	21	3.5	0.00	0.00					200	20		
27S/23E-2500M 70-04-14	9504 15	5648 5648	74		233	9.5	0	0.0	0.00	3.00		16	326	1.52	3.55	0.01	0.01					177	0		
27S/23E-3500M 70-04-15	4512 15	5648 5648	77		358	9.4	10	0.50	0.00	3.01		12	31	112	31	1.4	0.00					263	25		
27S/24E-0500M 69-10-02 0925	61851 15	5050 5050	76		160		4.4	0.33	0.30	1.44		0.4	42	12	3.1	0.07	0.01					11			
27S/24E-1000M 69-10-01 1045	61093 15	5050 5359	75		260		20	1.00	0.2	36	1.57	0.01	0.00	1.24	3.50	3.5	0.08					170	51		
27S/24E-2200M 69-10-01 1053	61094 15	5050 5050	77		650		62	4.09	0.1	5.3	1.4	0.0	50	1.45	110	35	0.0					502	205		
27S/24E-3100M 70-04-15	5626 15	5648 5648	77		392	9.3	10	0.50	0.08	3.34		0.00	35	65	45	3.1	0.01					236	29		
27S/25E-0500M 69-10-01 1010	61055 15	5050 5050	73		260		23	1.6	29	1.26	0.1	0.00	1.45	1.01	0.27	1.0	0.0					165	64		
27S/26E-2200M 70-03-24	202235 15	5703 5803			1282	7.3	121.6	16.1	104	4.8	0.12	1.00	122	38.4	323.4	9.12	0.25	0	5.0			765.2			
70-08-31	204436 15	5731 5803			800	7.9	62.4	4.11	4.44	3.76	0.07	0.00	40.3	13.4	234	8.60	0.10		20			467			
27S/26E-2200M 70-08-31	204439 15	5703 5603			276	8.2	14	0.70	2	0.16	1.81	0.03	4.8	65.3	11.5	42.6	0.10	0	20.5			165.2			
27S/26E-2500M 70-03-24	202236 15	5703 5603			455	8.6	11.6	3.58	2.7	94.3	0.7	0.00	51.9	70.6	83.7	1.47	0.33	0	20			246.3			
27S/26E-2700M 70-04-02	202381 15	5703 5803			1000	7.3	147.0	24.3	63.5	3.80	0.11	0.00	152.5	24.8	321.3	4.06	0.33	0.10	27.3			663.4			
70-08-31	204441 15	5703 5803			526	7.8	37.0	1.38	0.52	3.28	0.04	0.00	161	2.64	0.24	69.3	0.05	0	23.5			334.1			
27S/26E-2700M 70-03-24	202237 15	5703 5703			2041	7.3	273.6	52.2	67.5	6.2	0.10	0.00	194	201.6	510.6	14.44	0.10	0	35			1230			
27S/26E-2700M 70-08-31	204440 15	5703 5803			1818	7.9	274.4	52.2	67.5	6.2	0.10	0.00	194	201.6	510.6	14.44	0.10	0	16			1087			
28S/22E-0100M 70-04-16	9545 15	5648 5806	77		1600	8.3	50	2.50	1	274		0.00	21	73	447	6.7	0.01					955	129.1		
28S/22E-1200M 70-05-10	9589 15	5648 5806	74		1260	8.6	26	1.30	2.5	1.41		0.07	57	153	200	7.5	0.51					905	75.6		
28S/22E-1300M 70-05-18	9588 15	5648 5806	67		1450	8.3	120	5.39	3	155		0.00	55	310	145	0.5	0.12					610	312.8		
28S/23E-0100M 70-04-15	4536 15	5648 5806	77		356	8.7	10	0.50	0.00	3.46		0.00	32	106	35	1.3	0.10					271	25		
28S/23E-0500M 70-04-16	9530 15	5648 5806	77		1370	6.8	43	2.15	0.00	1.3		0.00	25	125	332	1.3	0.14					752	107.6		
28S/23E-0800M 70-04-16	9548 15	5648 5806	76		1320	8.3	20	1.00	0.00	11.07		0.00	174	3.50	7.71	2.05	0.10					735	54		
28S/23E-0900M 70-04-16	9534 15	5648 5807	77		1300	8.7	60	2.49	0.00	6.51		0.00	27	244	5.41	5.84	0.25					733	154.1		
28S/23E-1400M 70-04-16	9522 15	5648 5806	70		373	8.6	20	1.00	0.00	3.34		0.00	17	105	2.25	3.90	0.01					260	50		
28S/23E-1600M 70-04-16	9548 15	5648 5806	77		698	9.3	22	1.10	0.00	5.35		0.00	20	127	112	7.4	0.01					407	55		
28S/23E-1700M 70-04-16	9515 15	5648 5806	78		2140	8.5	88	4.39	0.16	14.76		0.00	132	563	2.0	7.33	0.25					1145	228.1		
28S/23E-2200M 70-04-16	9513 15	5648 5806	76		356	7.5	6	0.44	0.00	3.43		0.00	24	106	1.23	1.76	0.01					233	20		
28S/23E-2400M 70-04-16	9514 15	5648 5806	69		211	9.0	5	0.44	0.00	2.22		0.00	24	106	1.23	1.76	0.01					168	24		
28S/23E-3000M 70-05-18	9500 15	5648 5806	68		540	9.0	24	1.27	0.32	3.44		0.00	17	107	2.06	3.99	0.01					303	76		
28S/23E-3400M 70-04-16	9555 15	5648 5806	75		350	9.5	11	0.30	0.00	3.75		0.00	17	107	2.06	3.99	0.01					234	0		
28S/23E-3500M 70-04-16	9536 15	5648 5806	77		728	9.1	46	2.31	0.22	124	5.35	0.00	24	107	3.54	3.33	0.01					483	115		
28S/23E-3600M 70-04-16	9541 15	5648 5806	69		326	8.7	22	1.10	0.00	3.00		0.00	22	117	35	1.4	0.00					254	55		
28S/24E-0500M 70-04-15	9504 15	5648 5806	76		154	8.9	1	0.00	0.00	2.4		0.00	56	107	13	1.3	0.01					125	0		
28S/24E-0600M 70-04-15	9520 15	5648 5806	76		742	8.8	52	2.50	0.16	5.13		0.00	17	107	4.73	2.28	0.01					501	133		
28S/24E-0800M 70-04-16	9551 15	5648 5806	75		306	9.1	8	0.40	0.00	3.00		0.00	40	83	29	2.6	0.01					205	20		

TABLE E-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

State Well Number	Lab No.	Samp. Temp.	Pld. EC	Pld. pH	Mineral Constituents in										Milligrams per Liter					TH		
					Lab. EC	Lab. EC	Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	P	B	SiO ₂	TDS			
Date	Time	Co.	Lab.																	NCH		
28S/24E-05A01M			5540	5648	72		512	7.7	70	0	100	4.35	0	27	174	144	0.67	0.01		508	190	
70-04-15		15	5806						3.79	0.00			0.00	0.44	3.62	4.06	0.01					
28S/24E-15H01M			5538	5648	74		417	8.1	32	1.60	0.00	63	2.74	0	56	93	52	0.4	0.02	268	80	
70-04-16		15	5806										0.00	0.92	1.34	1.47	0.01					
28S/24E-20A01M			5556	5648	74		211	9.1	0	0.00	0.00	69	3.00	8	36	54	35	1.3	0.01	184	0	
70-04-16		15	5806										0.27	0.59	1.12	0.99	0.02					
28S/24E-27P01M			5529	5648	71		206	8.9	5	0.25	0	56	2.43	0	48	59	1.23	0.45	5.4	0.01	160	12
70-04-16		15	5806										0.00	0.79	1.23	0.65	0.08					
28S/24E-28A01M			61097	5050	75	1200			100	0.7	132	1.6	0	31	137	256	7.5	0.0	810	253	228	
69-10-01	1230		5050			1150	8.2		4.99	0.06	5.74	0.04	0	0.00	0.51	2.85	7.22	0.12				
70-04-16			9521	5648	73				118	5.89	1	154	6.70	0	28	205	281	6.7	0.01	773	299	
			15	5806									0.00	3.36	5.85	7.92	0.11					
28S/25E-04P02M			61098	5050	80	550			75	2.7	50	1.6	0	99	100	64	54	0.0	395	198	117	
69-10-01	1135		15	5050		611	7.9		3.74	0.22	2.18	0.04	0	0.00	1.62	3.48	1.80	0.87				
29S/23E-02J01M			5531	5648	77				92	3	362	0	60	167	571	4.5	0.21	1225	243			
70-04-16		15	5806			2210	7.5		4.55	0.25	15.74	0.00	0.98	3.48	16.10	0.07						
29S/23E-03L01M			5545	5648	68				85	4	274	0	158	301	226	0.4	0.83	1029	229			
70-04-16		15	5806			1670	7.4		4.24	0.33	11.91	0.00	2.59	7.52	6.37	0.01						
29S/23E-12D01M			5517	5648	76				69	1	292	0	49	149	443	6.7	0.06	970	177			
70-04-16		15	5806			1640	7.9		3.44	0.08	12.70	0	0.00	0.80	2.91	12.49	0.11					
29S/24E-04J01M			5893	5648	72				23	1	53	0	48	10	74	5.7	0.14	190	63			
70-05-15		15	5806			530	8.5		1.15	0.08	2.30	0	0.00	0.79	0.21	2.23	0.09					
29S/24E-05J01M			5897	5648	73				10	1	63	0	4	56	5	76	0.9	0.14	185	42		
70-05-16		15	5806			440	8.9		0.50	0.08	2.74	0.13	0.92	0.10	2.14	0.01						
29S/24E-07N01M			5896	5648	76				65	1.5	245	0	95	5	404	0.5	0.12	796	168			
70-05-15		15	5806			1520	7.9		3.24	0.12	10.65	0	0.00	1.56	0.10	11.39	0.01					
29S/24E-08P01M			5895	5648	78				13	1	95	0	82	5	106	0.5	0.24	261	38			
70-05-15		15	5806			540	8.4		0.65	0.08	4.13	0	0.00	1.34	0.10	2.59	0.01					
29S/24E-10R01M			5892	5648	71				5	1	38	0	61	25	13	0.5	0.14	112	18			
70-04-20		15	5806			290	8.0		0.25	0.08	1.65	0	0.00	1.00	0.52	0.37	0.01					
29S/24E-17M01M			5894	5648	76				10	1	75	0	77	10	71	0.5	0.39	205	30			
70-05-15		15	5806			480	8.6		0.50	0.08	3.26	0	0.00	1.26	0.21	2.00	0.01					
29S/25E-16P01M			65484	5050		550			71	7.0	44	0	109	1.79	72	22	0.2	206				
70-07-01	1330		15	5050		620	8.3		3.54	0.58	1.91	0	0.00	1.79	2.03	0.35						
32S/24E-26A01M			62078	5050					461	182	700	12	0	98	320	127	16	6.2	4850	1000	1820	
69-10-30	1515		15	5050		5170	7.5		22.99	14.97	36.45	0.31	0	0.00	1.81	62.51	3.58	0.26				
32S/31E-23R01M			63068	5647					25	7.2	18	2.5	0	71	20	14	45	0.0	184	92	34	
70-01-16	1035		15	5050		282	8.0		1.25	0.59	0.78	0.06	0	0.00	1.16	0.42	0.39	0.73				
32S/31E-26A01M			61946	5050																		
69-11-26	1020		15	5050																		
70-01-16	1030		63067	5647					118	5.89	31	2.55	40	7.6	0	206	85	89	174	0.0	614	424
			15	5050		1010	8.3						0.00	3.38	1.77	2.51	2.81		255			
32S/31E-27N01M			61873	5647					31	22	36	6.8	0	212	32	36	0.3	0.0	240	169	0	
69-10-07	1330		15	5050		448	8.2		1.56	1.81	1.64	0.17	0	0.00	3.47	0.67	1.02	0.00				
32S/31E-35N01M			61884	5647					56	13.5	29		0	2.03		18	6.7	0.1			195	
69-10-07	1415		15	5050		484	8.1		2.79	1.11	1.26	0	0.00	3.33		0.51	0.11					
32S/31E-36C01M			61895	5647					64	21	39	1.70	5	240		21	22	0.1			246	
69-10-07	1345		15	5050		570	8.4		3.19	1.73			0.17	353		0.59	0.35					
32S/32E-12P01M			61886	5647					48	9.5	35	1.52	0	210		18	8.2	0.5			159	
69-10-17	1030		15	5050		443	8.3		2.40	0.78			0	0.00	3.44		0.51	0.13				
32S/32E-13P01M			61887	5647					53	10.5	34		0	212		18	13	0.2			175	
69-10-17	1050		15	5050		475	8.3		2.64	0.86	1.48		0	0.00	3.47		0.51	0.21				
32S/32E-19L01M			61874	5647					73	14	22	0.94	3.6	0	184	104	16	9.6	0.0	369	241	
69-10-07	1245		15	5050		543	7.6		3.63	1.15			0	0.00	3.02	2.17	0.45	0.15			90	
32S/32E-23J01M			61875	5647					69	19	48	2.09	0	301	62	30	2.8	0.1			364	
69-10-07	0900		15	5050		640	7.7		3.46	1.57	2.09	0.2	0	0.00	4.93	1.29	0.85	0.05			252	
32S/32E-25N01M			61876	5647					37	13	60	2.61	0.06	0	137	119	27	1.4	0.0	345	145	
69-10-07	0845		15	5050		554	7.8		1.86	1.07			0	0.00	2.25	2.48	0.76	0.02			33	
32S/32E-28H01M			61888	5647					67	19	18		0	252		9.6	13	0.1			249	
69-10-07	1215		15	5050		506	8.4		3.34	1.56	0.78		0	4.13		0.27	0.21					
32S/32E-30P01M			61859	5647					66	21	39	1.70	7	260		28	22	0.1			255	
69-10-07	1430		15	5050		614	8.5		3.25	1.73			0.23	4.26		0.79	0.35					
32S/32E-34B01M			62079	5050					75	22	17	0.74	0	276		11	9.2	0.0			279	
69-10-07	1015		15	5050		570	7.8		3.74	1.83			0	0.00	4.52		0.31	0.15				
32S/33E-20P01M			61877	5647					47	6.4	25	1.07	1.1	0	179	19	10	0.28	0.0		198	
69-10-07	0730		15	5050		370	7.9		2.33	0.53			0.03	0	0.00	2.93	0.40	0.16	0.26		143	
32S/33E-22M03M			61878	5647					44	5.2	26	0.9	0	137	28	19	22	0.0			225	
69-10-17	0945		15	5050		375	7.8		2.20	0.43	1.13	0.02	0	0.00	2.25	0.58	0.54	0.35			132	
32S/33E-26P01M			61879	5647					64	8.5	33	0.8	0	216	49	18	14	0.0			278	
69-10-06	1315		15	5050		490	7.9		3.17	0.70	1.42	0.02	0	0.00	3.54	1.02	0.51	0.23			17	
32S/33E-28A01M			61890	5647					56	9	23	1.00	0	189		15	20	0.1			177	
69-10-06	1500		15	5050		421	8.3		2.79	0.75			0	0.00	3.10		0.42	0.32				
32S/33E-29K01M			61891	5647					38	5.4	39		0	166		12	11	0.1			117	
69-10-06	1530		15	5050		383	8.3		1.90	0.44	1.70		0	0.00	2.72							

TABLE K-1 (Continued)
MINERAL ANALYSES OF GROUND WATER

State Well Number	Lab. No.	Samp. No.	Temp. °F	Fld. EC	Fld. EC	Mineral Constituents In										Milligrams per Liter					Milligrams per Liter				
						Milliequivalents per Liter										Milligrams per Liter					Milligrams per Liter				
Date	Time	Co.	Lab.	Lab. EC	Lab. EC	Ca	Mg	Na	K	CO ₃	HCO ₃	SO ₄	Cl	NO ₃	P	B	Li	Si	Fe	TDS	TH				
32S/34E-15H00M	69-10-06 0900	15	5047	50	811	7.9	51	18	1.7	0.04	0.00	336	114	21	11	0.4				455	204				
			5050		781		2.56	1.48	4.05	9.04	0.00	5.51	2.37	0.59	0.16										
32S/34E-3(M)01M	69-10-06 1230	15	5047	03	526	7.8	75	4.5	37	1.0	0.00	210	74	30	19	0.0				342	226				
			5050		585		3.74	0.78	1.63	3.03	0.00	3.44	1.54	0.85	0.31						54				
32S/34E-34B01M	69-10-06 1000	15	5047	02	467	8.4	40	11	70	0.17	3.74		14	42	0.5					146					
			5050		567		2.00	0.90	3.04		0.17	3.74		0.34	0.68										

TABLE E-2
TRACE MINERAL ANALYSES OF GROUND WATER

Table E-2 presents trace mineral analyses performed by the Department of Water Resources Laboratory or U. S. Geological Survey Laboratory. The following are definitions of abbreviations and chemical symbols used in this table.

Chemical Symbols

AL	Aluminum	GE	Germanium
AS	Arsenic	HG	Mercury
BE	Beryllium	LI	Lithium
BI	Bismuth	MN	Manganese
BR	Bromine	MO	Molybdenum
CD	Cadmium	NI	Nickel
CO	Cobalt	PB	Lead
CR	Chromium	SR	Strontium
CU	Copper	TI	Titanium
FE	Iron	V	Vanadium
GA	Gallium	ZN	Zinc

Abbreviations

LAB	Laboratory
5000	U. S. Geological Survey
5050	Department of Water Resources
M	Milligrams per liter
U	Micrograms per liter
Y	Less than the amount indicated

TABLE E-2
TRACE MINERAL ANALYSES OF GROUND WATER

STATE WELL NO.	DATE	LAB	AL LI	AS MM	BE MC	BI MI	BR PB	CD TI	CG V	CH ZN	CU SR	FE MO	GA	OE
04S/10E-20E01 M	70-04-29	5000	17U --	3.3UY --	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 7.30	3.3UY 113.00	3.3UY --	3.3UY --	1.3UY	0.7UY
10S/17E-06A01 M	70-04-29	5000	26U --	3.3UY --	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 0.70	3.3UY 13UY	3.3UY --	107U --	13UY	0.7UY
11S/10E-10D01 M	70-04-29	5000	21U --	24U --	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 0.7UY	3.3UY 930	3.3UY 3.3UY	3.3UY --	29U --	13UY	0.7UY
11S/20E-31P01 M	70-04-30	5000	23U --	3.3UY --	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 6.70	3.3UY 2000	3.3UY --	22U --	13UY	0.7UY
13S/24E-06J01 M	70-05-14	5050	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	0.03M --	-- --	-- --
15S/10E-21C01 M	70-09-02	5000	45U --	-- 8U	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 0.7UY	3.3UY 0.70	3.3UY 13UY	3.3UY --	10U --	13UY	0.7UY
15S/25E-31D01 M	69-10-17	5000	3.3UY --	3.3UY --	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 160	3.3UY 13UY	3.3UY --	3.3UY --	13UY	0.7UY
17S/27E-35P01 M	69-10-17	5000	3.3UY --	12U --	1.3UY 5.6U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 7.30	3.3UY 700000	3.3UY --	12U --	13UY	0.7UY
10S/10E-06L01 M	70-09-16	5000	3.3UY --	3.3UY --	1.3UY 0.7UY	17U 5.1U	-- 3.3UY	3.3UY 1.3UY	0.70 2.20	230 930	44U --	37U --	13UY	0.7UY
10S/21E-26D01 M	70-04-15	5000	200U --	4.7U --	1.3UY 10U	0.7UY 14U	-- 3.3UY	3.3UY 1.3UY	3.3UY 3.50	3.3UY 13UY	930 --	390U --	13UY	0.7UY
10S/22E-2-Q01 M	70-04-16	5000	47U --	5.3U --	1.3UY 300	0.7UY 1.7U	-- 3.3UY	3.3UY 1.3UY	3.3UY 220	3.3UY 13UY	3.3UY --	60U --	13UY	0.7UY
10S/24E-34P01 M	69-10-16	5000	3.3UY --	3.3UY --	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 3.30	3.3UY 1200	3.3UY --	12U --	13UY	0.7UY
10S/26E-36C01 M	69-10-16	5000	3.3UY --	3.3UY --	1.3UY 5.3U	0.7UY 0.7U	-- 0.7U	3.3UY 1.3UY	3.3UY 0.70	3.3UY 370000	3.3UY --	15U --	13UY	0.7UY
19S/25E-31J02 M	69-10-15	5000	3.3UY --	3.3UY --	1.3UY 0.7UY	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 4.20	3.3UY 3100	3.3UY --	4U --	13UY	0.7UY
20S/27E-14G01 M	69-10-16	5000	3.3UY --	3.3UY --	1.3UY 5.6U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 5.30	3.3UY 8000	3.3UY --	6.7U --	13UY	0.7UY
21S/27E-27D01 M	70-09-17	5050	-- --	0.01M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
21S/27E-27P01 M	70-09-17	5050	-- --	0.01M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
	70-09-18	5000	3.3UY --	10UY --	1.3UY 6.7U	-- 8U	-- 3.3UY	3.3UY 1.3UY	630 230	3.3UY 13UY	3.3UY --	47U 0.5UY	13UY	0.7UY
21S/27E-35H01 M	69-10-16	5000	8.7UY --	3.3UY --	1.3UY 2U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 1.60	3.3UY 13UY	3.3UY --	4.50 --	13UY	0.7UY
22S/17E-15M02 M	70-04-13	5000	3.3UY --	3.3UY --	1.3UY 26U	0.7UY --	-- --	3.3UY 1.3UY	3.3UY 150	3.3UY 13UY	3.3UY --	230 --	13UY	0.7UY
22S/19E-18M02 M	70-04-13	5000	3.3UY --	3.3UY --	1.3UY 9.3U	0.7UY --	-- --	3.3UY 1.3UY	3.3UY 210	3.3UY 13UY	3.3UY --	17U --	13UY	0.7UY
22S/26E-10M01 M	69-10-10	5000	12U --	3.3UY --	1.3UY 2.20	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 3.60	3.3UY 13UY	3.3UY --	4.30 --	13UY	0.7UY
23S/18E-30A01 M	70-04-13	5000	3.3UY --	3.3UY --	1.3UY 430	0.7UY 1.3U	-- 3.3UY	3.3UY 1.3UY	3.3UY 1.50	3.3UY 13UY	3.3UY --	17U --	13UY	0.7UY
23S/27E-27G01 M	69-10-16	5000	3.3UY --	3.3UY --	1.3UY 150	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 150	3.3UY 13UY	3.3UY --	3.3UY --	13UY	0.7UY
24S/24E-09Q02 M	69-10-16	5000	73U --	13U --	1.3UY 200	0.7UY 0.7UY	-- 3.3UY	3.3UY 3.50	3.3UY 0.90	3.3UY 13UY	3.3UY --	230U --	13UY	1.60
24S/24E-27A01 M	69-10-03	5050	-- --	0.04M --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --	-- --
32S/24E-26A01 M	69-10-30	5000	3.3UY --	30U --	1.3UY 730U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 7.30	3.3UY 6700	3.3UY --	3.3UY --	13UY	0.7UY
32S/31E-36C01 M	69-11-26	5000	3.3UY --	3.3UY --	1.3UY 8U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 0.70	3.3UY 11000	350 --	3.3UY --	13UY	0.7UY
32S/32E-12P01 M	69-11-26	5000	3.3UY --	3.3UY --	1.3UY 4.7U	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 13UY	3.3UY 13UY	3.3UY --	3.3UY --	13UY	3.50
32S/32E-34B01 M	69-11-24	5000	3.3UY --	3.3UY --	1.3UY 3.60	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 3.30	3.3UY 1200	200 --	3.3UY --	1.3UY	0.7UY
32S/33E-26P01 M	69-11-24	5000	3.3UY --	3.3UY --	1.3UY 130	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 2.20	3.3UY 5000	3.3UY --	3.3UY --	13UY	0.7UY
32S/34E-15H02 M	69-11-24	5000	3.3UY --	3.3UY --	1.3UY 440	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 110	3.3UY 4000	3.3UY --	3.3UY --	13UY	0.7UY
32S/34E-34B01 M	69-11-26	5000	3.3UY --	3.3UY --	1.3UY 360	0.7UY 0.7UY	-- 3.3UY	3.3UY 1.3UY	3.3UY 170	3.3UY 13UY	310 --	3.3UY --	13UY	0.7UY

TABLE E-3
MISCELLANEOUS CONSTITUENTS OF GROUND WATER

Table E-3 presents analyses which do not appear on Tables E-1 and E-2. The following are definitions of abbreviations used in this table.

ABS Methylene Blue Active Substances
(as Alkyl Benzene Sulfonate)

FOP Filterable Orthophosphate (as P)

LAB Laboratory

5050 Department of Water Resources

TABLE E-3

MISCELLANEOUS CONSTITUENTS OF GROUND WATER
(Milligrams per liter)

STATE WELL NUMBER	:	DATE	:	LAB	:	ABS	:	FOP
21S/27E-21A01 M		70-09-17		5050				0.65
21K02 M		70-09-17		5050				0.58
21N01 M		70-09-17		5050				0.04
21P01 M		70-09-17		5050				0.02
21R02 M		70-09-17		5050				0.78
27D01 M		70-09-17		5050		0.1		4.3
27F01 M		70-09-17		5050		0.1		7.4
27G03 M		70-09-18		5050				0.06
27L01 M		70-09-18		5050				0.03
27M02 M		70-09-17		5050				0.08
28E02 M		70-09-17		5050				0.53
34B01 M		70-09-18		5050				0.76
34D01 M		70-09-17		5050				0.09
22S/28E-05D01 M		70-09-17		5050				0.03
06A02 M		70-09-17		5050				0.62

APPENDIX F
WASTE WATER DATA

INTRODUCTION

Appendix F presents quantities of waste water discharged by selected waste treatment facilities, during the 1970 water year (October 1, 1969 through September 30, 1970) in the Tulare Lake Subbasin. The information presented in Table F-1 was obtained from the files of the California Regional Water Quality Control Board, Central Valley Region.

Definitions

The following are definitions of terms and abbreviations used in Table F-1:

mgd	million gallons per day
AF/Yr	acre-feet per year
C.S.D.	Community Services District
S.D.	Sanitation District
W.W. Dist.	Water Works District
W.D.	Water District
C.W.D.	County Water District
P.U.D.	Public Utilities District
Mtce. Dist.	Maintenance District

TABLE F-1
INVENTORY OF MUNICIPAL WASTE DISCHARGES
TULARE LAKE SUBBASIN

Discharger	Average Discharge (mgd)	Volume Discharged (AF/Yr)	Type of Disposal
FRESNO COUNTY			
Biola C. S. D.	0.1	110	Land
Caruthers C. S. D.	0.1	110	Land
Clovis, City of	1.5	1,680	Land
Coalinga, City of	0.2	220	Land
Del Rey C. S. D.	0.5	560	Land
Fowler, City of	0.5	560	Land
Fresno, City of	26	29,200	Land
Fresno County Industrial Farm	0.1	110	Land
Fresno County S. D. No. 1	0.4	450	Land
Fresno County S. D. No. 2	0.1	110	Land
Fresno Co. W. W. Dist. No. 18	0.2	220	Land
Huron, City of	0.1	110	Land
Kerman, City of	0.2	220	Land
Kingsburg, City of	0.5	560	Land
Laton County W. D.	0.1	110	Land
Malaga County Water District	0.8	900	Land
Mendota, City of	0.5	560	Land
Orange Cove S. D.	0.5	560	Land
Parlier, City of	0.1	110	Land
Parlier, West, C. S. D.	0.2	220	Land
Pinedale C. W. D.	0.5	560	Land
Pinedale P. U. D.	0.5	560	Land

TABLE F-1 (Continued)

INVENTORY OF MUNICIPAL WASTE DISCHARGES
TULARE LAKE SUBBASIN

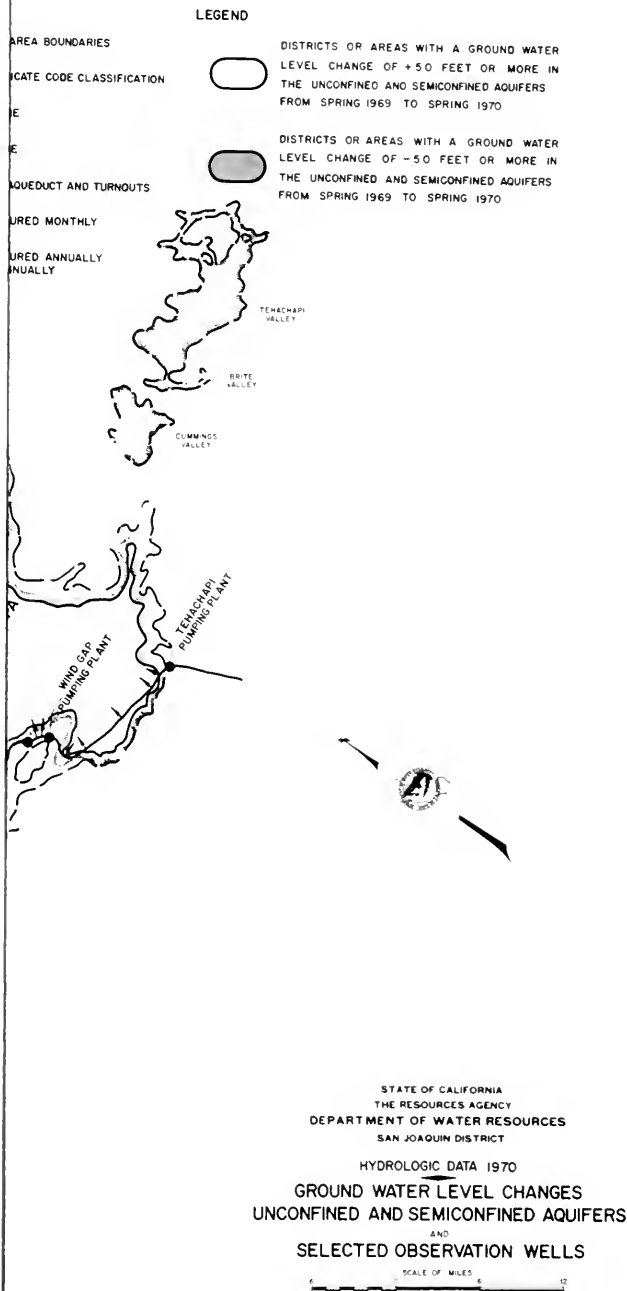
Discharger	Average Discharge (mgd)	Volume Discharged (AF/Yr)	Type of Disposal
FRESNO COUNTY (continued)			
Reedley, City of	1.5	1,680	Land
Riverdale P. U. D.	0.1	110	Land
Sanger, City of	2.0	2,240	Land
San Joaquin, City of	0.1	110	Land
Selma, City of	0.8	900	Land
Tranquillity P. U. D.	0.1	110	Land
KERN COUNTY			
Arvin County S. D.	0.1	110	Land
Bakersfield, City of, No. 1	8.0	8,960	Land
Bakersfield, City of, No. 2	12.0	13,450	Land
Bakersfield, City of, No. 3	3.0	3,360	Land
Bakersfield, Mt. Vernon Co. S. D.	6.0	6,720	Land
Bakersfield, North of the River S. D. No. 1	4.0	4,480	Land
Buttonwillow County W. D.	0.1	110	Land
Delano, City of, Plant No. 1	1.5	1,680	Land
Delano, City of, Plant No. 2	1.0	1,120	Land
Lamont P. U. D.	0.2	220	Land
Maricopa, City of	0.1	110	Land
McFarland, City of	0.5	560	Land
Shafter P. U. D.	1.0	1,120	Land

TABLE F-1 (Continued)
INVENTORY OF MUNICIPAL WASTE DISCHARGES
TULARE LAKE SUBBASIN

Discharger	Average Discharge (mgd)	Volume Discharged (AF/Yr)	Type of Disposal
KERN COUNTY (continued)			
Taft, City of	1.0	1,120	Land
Tehachapi, City of	0.4	450	Land
Tehachapi Correct. Inst.	0.5	560	Land
Wasco, City of	1.0	1,120	Land
KINGS COUNTY			
Armona, City of	0.1	110	Land
Avenal C. S. D.	0.3	340	Land
Corcoran, City of	0.5	560	Land
Hanford, City of	1.5	1,680	Land
Lemoore, City of	1.0	1,120	Land
Lemoore Naval Air Station	0.2	220	Land
Stratford P. U. D.	0.1	110	Land
TULARE COUNTY			
Cutler P. U. D.	0.5	560	Land
Dinuba, City of	1.5	1,680	Land
Earlimart P. U. D.	0.2	220	Land
Exeter, City of	0.7	780	Land
Farmersville, City of	0.1	110	Land
Ivanhoe P. U. D.	0.1	110	Land
Lindsay, City of	1.0	1,120	Land
Linnell Farm Labor Camp	0.1	110	Land

TABLE F-1 (Continued)
INVENTORY OF MUNICIPAL WASTE DISCHARGES
TULARE LAKE SUBBASIN

Discharger	Average Discharge (mgd)	Volume Discharged (AF/Yr)	Type of Disposal
TULARE COUNTY (continued)			
London C. S. D.	0.1	110	Land
Orosi P. U. D.	0.5	560	Land
Pixley P. U. D.	0.1	110	Land
Porterville, City of	1.5	1,680	Land
Springville P. U. D.	0.2	220	Land
Strathmore P. U. D.	0.2	220	Land
Terra Bella Sewer Mtce. Dist.	0.1	110	Land
Tulare, City of	5.0	5,600	Land
Visalia, City of	5.0	5,600	Land
Woodlake, City of	1.0	1,120	Land
Woodville Farm Labor Center	0.1	110	Land



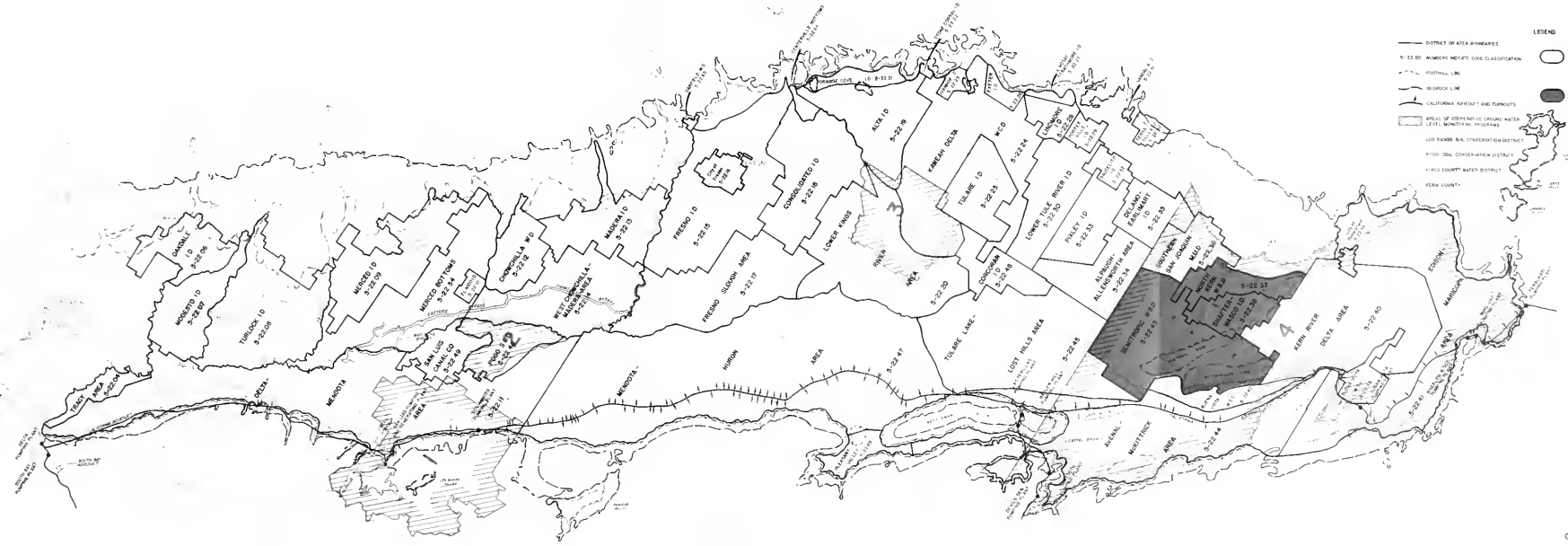


- LEGEND**
- DISTRICT OR AREA BOUNDARIES
 - 5-22 00: NUMBERS INDICATE GAGE CLASSIFICATION
 - - - - - FOOTHILL LINE
 - - - - - NEIRICK LINE
 - - - - - CALIFORNIA RAILROAD AND TURNOUTS
 - WELLS MEASURED MONTHLY
 - WELLS MEASURED ANNUALLY AND SEMI-ANNUALLY
 - DISTRICTS IN AREAS WITH A GROUND WATER LEVEL CHANGE OF 4-17 FEET OR MORE IN THE UNCONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1965 TO SPRING 1970
 - DISTRICTS IN AREAS WITH A GROUND WATER LEVEL CHANGE OF 1-3 FEET OR MORE IN THE UNCONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1965 TO SPRING 1970

STATE OF CALIFORNIA
 THE RESOURCES AGENCY
 DEPARTMENT OF WATER RESOURCES
 SAN JOAQUIN DISTRICT
 HYDROLOGIC DATA 1970
 GROUND WATER LEVEL CHANGES
 UNCONFINED AND SEMICONFINED AQUIFERS
 AND
 SELECTED OBSERVATION WELLS

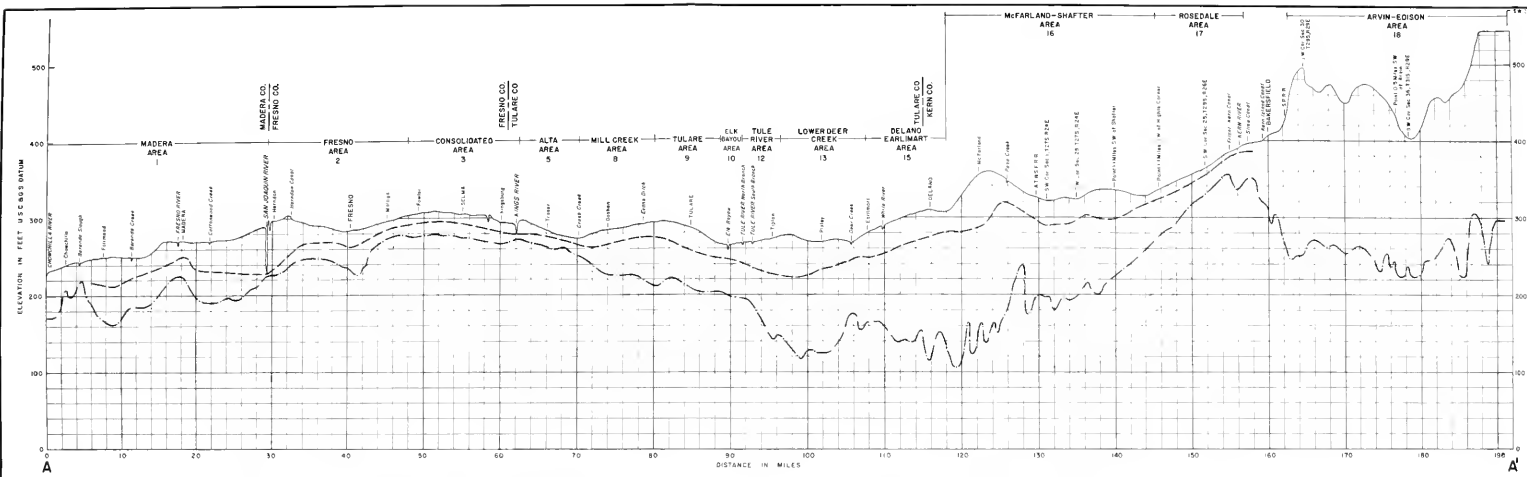
HYDROLOGIC DATA 1970
GROUND WATER LEVEL CHANGES
CONFINED AND SEMICONFINED AQUIFERS
AND
COOPERATIVE PROGRAM AREAS



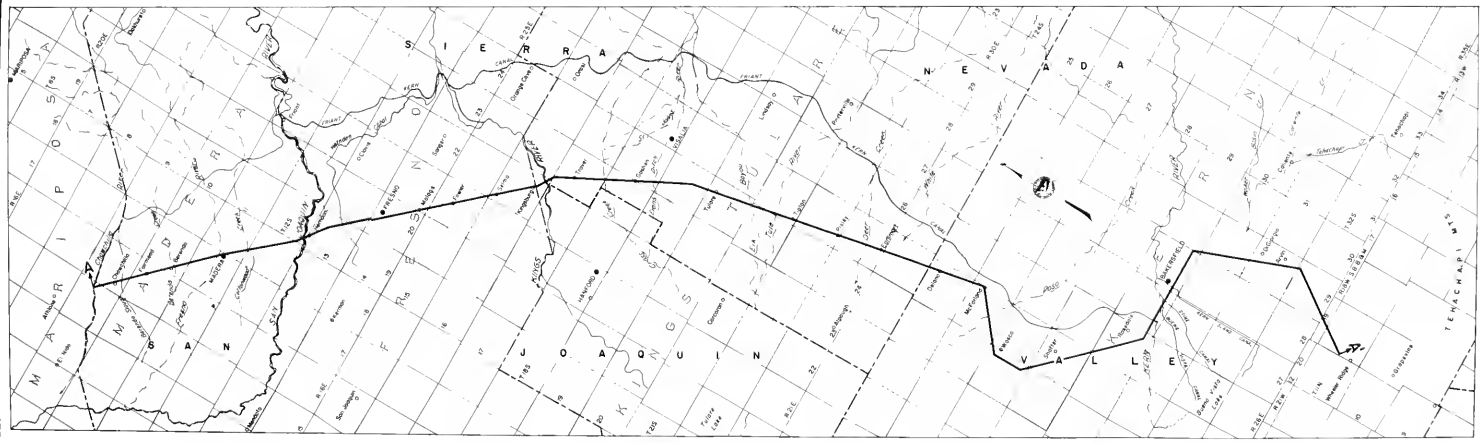


- LEGEND**
- DISTRICT OR AREA BOUNDARIES
 - 5-22 DO NUMBERS INDICATE CODE CLASSIFICATION
 - FOOTWALL LINE
 - BEDROCK LINE
 - CALIFORNIA ADVEFT AND TURNOUTS
 - AREAS OF COOPERATIVE GROUNDWATER LEVEL MONITORING PROGRAMS
 - DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF +5.0 FEET OR MORE IN THE CONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1969 TO SPRING 1970
 - DISTRICTS OR AREAS WITH A GROUND WATER LEVEL CHANGE OF -5.0 FEET OR MORE IN THE CONFINED AND SEMICONFINED AQUIFERS FROM SPRING 1969 TO SPRING 1970
 - LOS BANOS BAIL CONSERVATION DISTRICT
 - PYROS BAIL CONSERVATION DISTRICT
 - KINGS COUNTY BAIL DISTRICT
 - KERN COUNTY

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1970
GROUND WATER LEVEL CHANGES
IN THE
CONFINED AND SEMICONFINED AQUIFERS
THE
COOPERATIVE PROGRAM AREAS
MAY 1971



- HISTORIC DATA PRESENTED
IN FIGURE C-1 FOR FOLLOWING AREAS
1. MADERA
 2. FRESNO
 3. CONSOLIDATED
 4. CENTERVILLE BOTTOMS
 5. ALTA
 6. YARNOSE
 7. OUTSIDE YARNOSE
 8. MILL CREEK
 9. TULARE
 10. ELK RAYOU
 11. LINDSAY-EKERT
 12. TULE RIVER
 13. LOWER DEER CREEK
 14. MIDDLE DEER CREEK
 15. DELANO-EARLMART
 16. MCFARLAND-SHAFTER
 17. ROSEDALE
 18. ARVIN-EDDON

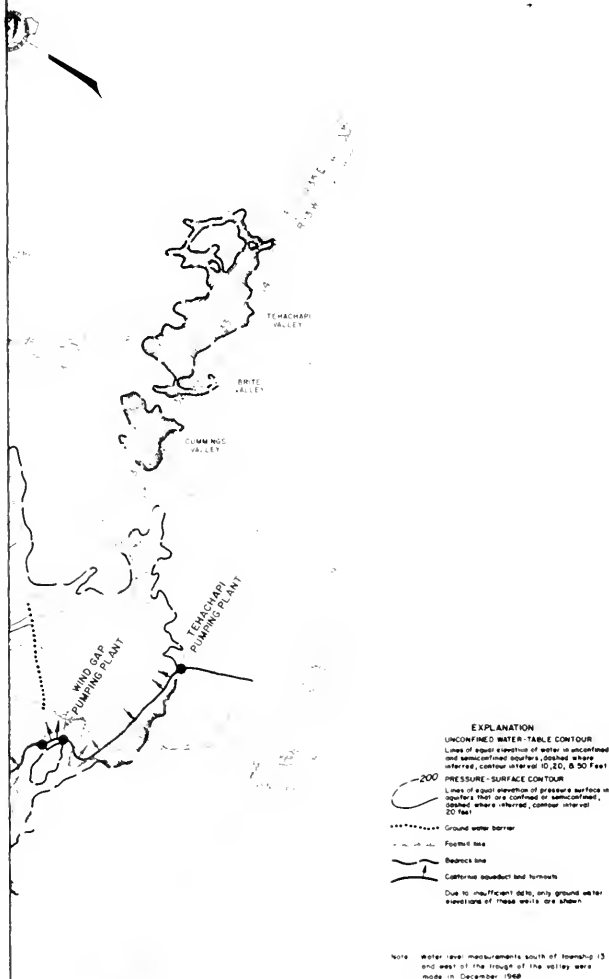


- LEGEND
- GROUND WATER AREA BOUNDARIES
 - GROUND WATER LEVEL FALL 1921
 - GROUND WATER LEVEL FALL 1951
 - GROUND WATER LEVEL SPRING 1970, UNCONFINED AQUIFER
 - GROUND WATER LEVEL SPRING 1970, PRESSURE SURFACE
 - GROUND WATER LEVEL PROFILE SECTION

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1970

MAP OF SELECTED GROUND WATER AREAS
IN THE SAN JOAQUIN VALLEY
AND
PROFILES ALONG SECTION A-A' SHOWING
GROUND WATER LEVELS IN 1921, 1951 & 1970

SCALE OF MILES



STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA 1970
—
LINE OF EQUAL ELEVATION
OF WATER IN WELLS
SAN JOAQUIN VALLEY
SPRING 1970

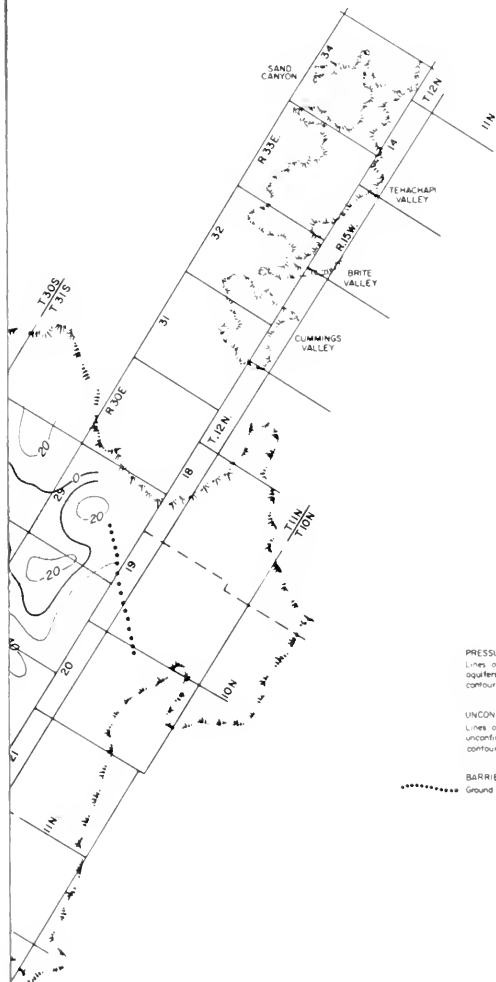
SCALE OF MILES



STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT
HYDROLOGIC DATA BFD

LINES OF EQUAL ELEVATION
 OF WATER IN WELLS
 SAN JACINTO VALLEY

Wiley 1994, pp. 278



EXPLANATION

PRESSURE-SURFACE CONTOUR
Lines of equal change of pressure surface in
aquifers that are confined or semi-confined;
contour interval 20 Feet

UNCONFINED CONTOUR
Lines of equal change of water levels in
unconfined and semi-confined aquifers;
contour interval 5, 10 and 20 Feet

BARRIER
..... Ground-water barrier

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
SAN JOAQUIN DISTRICT

HYDROLOGIC DATA 1970

**LINE OF EQUAL CHANGE
OF WATER LEVELS IN WELLS**

PRESSURE SURFACE AND UNCONFINED AQUIFERS

SAN JOAQUIN VALLEY
SPRING 1965 TO SPRING 1970

SCALE OF MILES
0 2 4 6

THIS BOOK IS DUE ON THE LAST DATE
STAMPED BELOW

BOOKS REQUESTED BY ANOTHER BORROWER
ARE SUBJECT TO RECALL AFTER ONE WEEK.
RENEWED BOOKS ARE SUBJECT TO
IMMEDIATE RECALL

JAN 24 REC'D

NOV 11 REC'D

FEB 10 1979

JAN 6 1986
JUN 20 1986

JUN 30 1987
APR 14 1988
LIBRARY, UNIVERSITY OF CALIFORNIA, DAVIS

Book Slip-Series 458

3 1175 00477 6780

TC California. Dept. of Water Resources.
824 Bulletin.
C2
A2
no. 130:70
v. 4-5
apps. A-F
PHYSICAL
SCIENCES
LIBRARY

